



भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

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No. 37] NEW DELHI, SATURDAY, SEPTEMBER 10, 1988 (BHADRA 19, 1910)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 10th September 1988

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Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

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CORRIGENDUM

In the Gazette of India, Part III Section 2 dated the 3rd May, 1980 in respect of Patent application No. 125/Cal/77, accepted number 147616 read as 147617.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under Section 135, of the patents Act, 1970.

The 4th August 1988

- 660/Cal/88. Shanti Ranjan Khaskel. Improvement in and Relating to Infusion Micropump for Medical Purpose.
- 661/Cal/88. Frigoscandia Contracting AB. Freezing Device.
- 662/Cal/88. Belorussky Politekhnikhesky Institut. Cutting Tool for Making A Tubular Element with Lateral Fins for A heat Exchanger.
- 663/Cal/88. Commonwealth Scientific and Industrial Research Organisation. Process for Enhanced Urea Production. (13th August, 1987) Australia.

The 5th August 1988

- 664/Cal/88. Kabel-und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Improvement Relating to ingot Moulds in Particular Continuous Casting Ingot moulds and the like.
- 665/Cal/88. Voest-alpine Stahl. Donawitz gesellschaft m.b.H. Process for melting scrap iron, sponge iron and solid pig iron or the like.
- 666/Cal/88. Abnamerika Corporation. A method of preparing a fuel additive. (Convention dated 28th January, 1985). [Divisional dated 19th March, 1985].
- 667/Cal/88. Ustav Pro Vyzkum Rud Mnisek Po Brdy. Process for preparing anhydrous magnesium carbonate.
- 668/Cal/88. Proektno-Tekhnologicheskyy Institut Organizatsii I Tekhnologii Stroitelstva. Method of fluid energy processing free-flowing material and apparatus materializing same.
- 669/Cal/88. Interatom GmbH. Valve control of internal combustion engines by means of a cam-driven rotary piston pump.
- 670/Cal/88. Interatom GmbH. Valve control of internal combustion engines by means of a rotary piston pump with unequal pumping output.

The 8th August 1988

- 671/Cal/88. G. S. Tasgoankar. A liquified petroleum gas stove.
- 672/Cal/88. Durametallic Corporation. Magnetic seal assembly.
- 673/Cal/88. Vsesojuzny Nauchno-Issledovatel'skiy Institut Zolota I Redkikh Metallov. Concentrator for beneficiating minerals.
- 674/Cal/88. Vsesojuzny Nauchno-Issledovatel'skiy Institut Zolota I Redkikh Metallov. Concentrator for beneficiating minerals.
- 675/Cal/88. Fantasy Toys, Inc. Interlocking toy building block devices. [Divisional dated 25th April, 1986]

- 676/Cal/88. The Jacobs Manufacturing Company. An improved process for compression release retarding of a multicylinder four cycle internal combustion engine. [Divisional dated 28th May, 1986].

- 677/Cal/88. Merck Patent Gesellschaft Mit Beschränkter Haftung. Golden colour lustre pigments.

The 10th August 1988

- 678/Cal/88. Victory Gas Alarm Company. A device for detecting and alarming the presence of a gas.
- 679/Cal/88. Azerbaidzhansky Nauchno-Issledovatel'skiy I Proektno-Konstruktorskiy Institut Neftyanogo Mashinostroyeniya Azinmash. Unit for borehole running and pulling operations.
- 680/Cal/88. Kabelmetal Electro GmbH. Process for the manufacture of a longitudinal-seam welded tube.
- 681/Cal/88. Hygeia Sciences, Inc. Metal sol capture immunoassay procedure, kit for use therewith and captured metal containing composite.

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, THIRD FLOOR, KAROL BAGH, NEW DELHI

The 18th July 1988

- 610/Del/88. Satyendra Narain Mathur. "A viewer for seeing stereoscopic pictures".
- 611/Del/88. Whirlpool Corporation. "Single shaft agitate and spin drive for automatic washer".
- 612/Del/88. International Business Machines Corporation. "Method of rapidly opening disk files identified by path names". (Convention date 10th December, 1987) (U.K.).
- 613/Del/88. International Business Machines Corporation. "Method of handling disk sector errors in daad cache". (Convention date 10th December, 1987) (U.K.).
- 614/Del/88. Santa Barbara Research Centre. "Variable phase time delay and signal aggregation system and method for achieving constant spatial resolution in scanning detection instruments".

The 19th July 1988

- 615/Del/88. The B. F. Goodrich Co. "Polycarboxylic acids with higher thickening capacity and better clarity".
- 616/Del/88. Laszlo Vadnay. "Dehusking grain".
- 617/Del/88. Bayer Aktiengesellschaft. "Catalyst".

The 20th July 1988

- 618/Del/88. Council of Scientific and Industrial Research. "A new improved and economic process for the production of an alkaline enzyme depilant suitable for the dehairing of hides and skins".
- 619/Del/88. Colgate Palmolive Co. "Fabric softening bentonite-sodium sulfate agglomerate and process for manufacturing for the same". [Divisional date 19th November, 1985].
- 620/Del/88. Dowty Seals Ltd. "Non reusable syringe". (Convention date 21st July, 87, 21st January, 1988 and 19th March, 88) (U.K.).
- 621/Del/88. Smiths Industries Public Ltd. Co. "Magnetic compasses and housings". (Convention date 29th August, 1987) (U.K.).
- 622/Del/88. Smiths Industries Public Ltd. Co. "Speed and torque sensors". (Convention date 12th August, 87 and 20th Aug., 87) (U.K.).
- 623/Del/88. Claude Leon Hembert. "Fluid tank and method of manufacturing it".

The 21st July 1988

624/Del/88. Societe De Conseils De Recherches Et D' Applications Scientifiques (S. C. R. A. S.), "Process for the preparation of new anti-diarrhea compositions". (Convention date 15th May, 1985) (U.K.) & [Divisional date 12th May, 1986].

625/Del/88. Tuomo Halonen Oy, "Welding method and apparatus".

626/Del/88. Digital Equipment Corporation, "Video circuit enclosure".

627/Del/88. Rem Chemicals, Inc, "Metal surface refinement using dense alumina based media".

The 22nd July 1988

628/Del/88. Pankaj Gupta and Salil Gupta, "An improved gas monitor and leak detector".

629/Del/88. Gorno-Altaysky Gosudarstvenny Pedagogichesky institut, "Device for building up directional force".

The 26th July 1988

630/Del/88. Devtex, "Device for drawing roves or slivers of fibers on a spinning machine".

631/Del/88. Rene Bouchet, "Improved hand pump for the raising and delivery of underground water".

632/Del/88. Pangaea Enterprises, Inc, "Drill pipes and casings utilizing multi-conduit tubulars". [Divisional date 28th July, 1987].

633/Del/88. J. S. Telecommunications, "A method and a circuit for controlling an audio conference between at least three participants".

634/Del/88. S. A. Vicat, "An anticopying medium for writing or printing and associated method".

The 27th July 1988

635/Del/88. Edward F. Mayer, "Gasifier apparatus".

636/Del/88. The Protector & Gamble Company, "Fabric softening composition and method of preparing".

637/Del/88. Union Carbide Corporation, "Composite membranes and their manufacture and use".

638/Del/88. Bertin & Cie, "A method and apparatus for apportioning a primary volume of fluid into a determined number of secondary volumes having a predefined mutual relationship".

639/Del/88. Nissan Chemical Industries, Ltd., "Pyridazine derivatives and compositions for controlling and/or preventing insect pests".

The 28th July 1988

640/Del/88. Jagadish Chand Kapur, "A photovoltaic interface".

641/Del/88. Council of Scientific and Industrial Research, "A one step process for the hydroxylation of aromatic compounds".

642/Del/88. Council of Scientific and Industrial Research, "Improved process for the preparation development of activated carbon fibers/cloth".

643/Del/88. Council of Scientific and Industrial Research, "A strain gauge slope indicator to monitor lateral movement".

644/Del/88. Uniroyal Tire Co. Inc., "A self-sealing pneumatic tire with an inner surface and a puncture sealant layer and method of making the same". [Divisional date 20th January, 1986].

645/Del/88. TRW Inc, "Oil-filled submersible electric pump motor with unvarnished stator structure".

646/Del/88. UTDC INC, "Longitudinal steering linkage for truck with interaxle yokes".

647/Del/88. Shail Mittal, "An educational demonstration kit".

648/Del/88. Council of Scientific and Industrial Research, "Domestic tools".

649/Del/88. Heinz Schaaf Nahrungsmittel-Extrusionstechnik, "An apparatus for extruding foodstuffs". [Divisional date 2nd May, 1986].

The 29th July 1988

650/Del/88. Anil K. Narayan, "Device for dispensing regulated measured dosages of liquid substance".

651/Del/88. Colgate Palmolive Co., "Dynamic transverse girth".

652/Del/88. Honda Giken Kogyo Kabushiki Kaisha, "Transmission device with a one way clutch for a vehicle".

653/Del/88. Union Carbide Corporation, "Permeable membranes for enhanced gas separation".

654/Del/88. Colgate-Palmolive Company, "Rib lock device".

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI
ESTATES, THIRD FLOOR, SUN MILL COMPOUND, LOWER PAREL (W), BOMBAY-13.

2-6-1988

157/BOM/88	Karsan Ramjibhai Dholaria	A device to trap flying rocket.
158/BOM/88	Jayantilal Tribhuvan Vyas.	A former less lining process JTV/FLL.
3-6-1988		
159/BOM/88	Hindustan Lever Limited.	Hydrogenation catalyst.
160/BOM/88	Om G. Ahuja	Loop Assignment Detector.
161/BOM/88	Do.	Solar Fuel Apparatus.
162/BOM/88	Do.	Voltage Sensative Switch VSS.

163/BOM/88	Kailash Agarwal	7-6-1988	Toilet Seats.
164/BOM/88	Pynadath Thomas Joy.		Pneumatic Jacks.
		8-6-1988	
165/BOM/88	Ahmedabad Textile industry's Research Association.		A novel pin transfer means for overpick plain loom.
		9-6-1988	
166/BOM/88	Hindustan Lever Limited, 12th June 1987, Great Britain.		Skin treatment composition.
167/BOM/88	Do. 12th June, 1987 & 21st Oct. 1987, Great Britain.		Oral compositions.
		10-6-1988	
168/BOM/88	Meethale Madathil Sasi.		Multi purpose kitchen filter.
		15-6-1988	
169/BOM/88	Anil Bhalchandra Phadke.		Improvements in or relating to information display system.
170/BOM/88	Pandurang Ramchandra Shinde.		An energy efficient cyclo bearing.
		16-6-1988	
171/BOM/88	The Raja Bahadur Motilal Poona Mills Limited.		An improved stand for use in a drafting machine.
172/BOM/88	Vinay Kumar Shridhar.		An improved ratchet device attached with a handle of a screw gauge and the like.
		20-6-1988	
173/BOM/88	Servito Fernandes		Radiator for cooling oil filled transformer.
		22-6-1988	
174/BOM/88	Parashkumar Govindbhai Patel.		Sagar Liquid plant growth promoter for vegetables and all crops.
175/BOM/88	Chak Chol Kwan.		A suction syringe with locking means and optional vacuum pressure indicating means.
176/BOM/88	Prashant Manjunath Prabhu.		Programming of parameters or constants in metering devices by means of a serial wire.
		23-6-1988	
177/BOM/88	Satish Savleram Dake & Sunita S. Dake.		Animal drawn multipurpose agricultural tool pipe/bar with penetration angle adjustment mechanism for operational depth control of various agricultural tools.
178/BOM/88	Om G. Ahuja		Telephone line protector.
179/BOM/88	Gangadhar Vaman Pendse & Suneel Gangadhar Pendse.		Independantly controlled anti crack device for non automatic power looms.
		24-6-1988	
180/BOM/88	Hoechst India Limited.		Novel artemisinin derivatives processes for their preparation and their use as anti-protozoal agents.
		27-6-1988	
181/BOM/88	Kabushiki Kaisha Toshiba.		Process control having improved combination of feedforward feedback control.
		28-6-1988	
182/BOM/88	Mohmed Iqbal Abdur Rehman Gokak.		Spherical mathematical puzzle with 24 moveable facets.
		29-6-1988	
183/BOM/88	Earl Bihari Pvt. Ltd.		An improved window hinge.
184/BOM/88	Do.		An apparatus for piercing and opening cans and bottles.

30-6-1988

185/BOM/88	Hindustan Ciba-Geigy Ltd.	A process for the preparation of new benzazole derivatives and their salts.
186/BOM/88	Kambyan Valapil Radhakrishnan Nair.	Process of manufacturing metallic/non-metallic tubes of any-length or covering of wires in a continuous process.
187/BOM/88	Do.	High pressure liquid pump which can be used as a gas compressor also for high pressures.
188/BOM/88	Do.	Reinforcing hollow section from within.

1-7-1988

189/BOM/88	Anant Narayan Namjoshi, & others.	A high speed mixing plant.
190/BOM/88	Do.	A high speed continuous mixing plant.

4-7-1988

191/BOM/88	Babubhai Nanubhai Patel & Rasiklal Nanubhai Gajera.	Carplain
192/BOM/88	Do.	Energy multiplier.
193/BOM/88	Hoechst India Limited.	A process for the production of a new anti-bacterial mercacidin from a bacillus species, Y-85,54728 (culture number Hoechst India Ltd, Y-85,54728) and its mutants and variants.

5-7-1988

194/BOM/88	Govind Hambirao Ugale & Arun Govind Ugale.	All the transports surface vehicle transport, air transports, and water transports are running with the strainth of the generator supply power, without the help of any kind of fuel.
195/BOM/88	Do.	The electricity produced by using twelve volts battery for a movement without the help of oil engine, dam, water fall, pawan-chakki etc. through the generator.
196/BOM/8	Do.	The electricity produced by using the human magel power for a movement. Without the help of oil engine, dam, water fall, pawan-chakki etc. through the generator.

7-7-1988

197/BOM/88	Om G. Ahuja	Telephone line test signature.
198/BOM/88	Jagdish Chandra Parkash.	A computerised locking system for use alone or in combination with any of the existing locks fitted to security any like equipments.

8-7-1988

199/BOM/88	Ahmedabad Textile Industry's Research Association.	Air humidification system for industrial purposes.
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11-7-1988

200/BOM/88	Mohmed Ibal Abdur Rahman Gokak.	Spherical game-cum-mathematical puzzle with forty-eight moveable pieces.
201/BOM/88	Hoechst India Ltd.	A process for the production of a novel glycopeptide antibiotic, namely decaplanin, from a strain of actinomycete, culture number HLL Y-85, 36910 isolated from soil, or its variants and mutants.

APPLICATIONS FOR PATENTS FILED AT
THE PATENT OFFICE BRANCH
61, WALLAJAH ROAD, MADRAS-600 002

The 18th July 1988

- 500/Mas/88. Nithyanada Shetty B; Prakash Udapa A; Harsha U & kalyan Krishna. Electrically operated compound gate opener system with provision for remote control attachment.
- 501/Mas/88. Siddaiah Sudarshan. Plastic body lead pencil.
- 502/Mas/88. G. Venkatramana Bhat. The defectless fuel injection pump. It can be liberated the all technical faults of the present fuel injection pump.
- 503/Mas/88. G. Venkatramana Bhat. The Centrifugal vacuum pump. It has been full vacuumed by revolution and give full pressure.
- 504/Mas/88. G. Venkatramana Bhat. The defectless carburetor. It can be liberated the all technical faults of the present carburetor.
- 505/Mas/88. G. Venkatramana Bhat. The frictionless ball bearing which prevent the friction of ball bearing.
- 506/Mas/88. Vucha Suscela & Vucha Jagan Mohan Rao. An improved process and device for core wrapping and compacting of telephone cable cores.
- 507/Mas/88. Zellweger Uster AG. Process and device for determining the yarn speed on textile machines.
- 508/Mas/88. P B IND Plant Biotech Industries Ltd., Apparatus & method for plant growth and development.

The 19th July 1988

- 509/Mas/88. Juan Antonio Segura Castano. Procedure for the preparation of pre-cooked paella.
- 510/Mas/88. Fratelli Marzoli & C.S.P.A., Roving frame apparatus for automatically removing bobbins and replacing them with empty tubes.
- 511/Mas/88. Fratelli Marzoli & C.S.P.A., Apparatus for doffing bobbins from roving frames and replacing the doffed bobbins with empty tubes.
- 512/Mas/88. Fratelli Marzoli & C.S.P.A., Improved structure system for supplying a spinning frame with full bobbins for replacing exhausted bobbin in a random way.
- 513/Mas/88. Fratelli Marzoli & C.S.P.A., System for automatically conveying cotton laps from a ribbon-lap machine to a combing machine assembly.
- 514/Mas/88. Motor Industries Co. Ltd. An improved element plunger of a fuel injection pump for use in diesel and multi-fuel engines and an improved method of manufacturing the same.
- 515/Mas/88. Cometec s.r.l. Compositions for promoting growth of animals.

The 20th July 1988

- 516/Mas/88. Zellweger Uster AG. Method and device for measuring the twist of a moving, elongate test sample.
- 517/Mas/88. BASF Aktiengesellschaft. Tanning Assistant.
- 518/Mas/88. H A Schlatter AG. Circuit arrangement having a plurality of electrical elements to be cooled.
- 519/Mas/88. Union Oil Company of California. A method for forming a herbicidal composition. (Divisional to Patent Application No. 628/Mas/86).

The 21st July 1988

- 520/Mas/88. Mobil Oil Corporation. Process for hydro-treating catalytic cracking feedstocks.
- 521/Mas/88. Digital Equipment Corporation. Three-pole magnetic recording head.

The 22nd July 1988

- 522/Mas/88. Eniricherche SpA & Enichem Augusts SpA. Dehydrogenation catalyst and process for preparing it.

The 26th July 1988

- 523/Mas/88. Cherian Mathew. A mechanical interlock device.
- 524/Mas/88. Tadikonda Srinivasa Madan Kishore. Match-cum-cigarette packet.
- 525/Mas/88. V. Partners of E. Ramesh Babu; V. Rama Sita; A. Neeraja & Y. Nirmala. "Volga" Washing machine.
- 526/Mas/88. Mobil Oil Corporation. Catalytic dewaxing process using binder-free catalyst.
- 527/Mas/88. Idemitsu Petrochemical Co., Ltd. Production of α -olefins.
- 528/Mas/88. Idemitsu Petrochemical Co., Ltd. The production of linear α -olefins.
- 529/Mas/88. A H Robins Company. Method of treating nausea and vomiting with certain substituted-phenylalkylamino (and aminoacid) derivatives and other serotonin depleting agents.

The 27th July 1988

- 530/Mas/88. Thirumalai Anandampillai Vijayan. A window air cooler for vehicles.
- 531/Mas/88. Thirumalai Anandampillai Vijayan. A heat shield for vehicles.
- 532/Mas/88. Thirumalai Anandampillai Vijayan. An improved tongue depressor.
- 533/Mas/88. O. P. Ekambaram. Mechanical type of shock cum vibration absorber.
- 534/Mas/88. General Instrument Corporation. Passivated P-N junction in mesa semiconductor structure.
- 535/Mas/88. Mobil Oil Corporation. Catalytic dewaxing process.
- 536/Mas/88. Meiji Seika Kaisha Ltd. N-alkylseleno-sulfonylcarbamoyl-5-chloroisothiazole derivatives and microbicides containing the same.
- 537/Mas/88. Asada Mill Co., Ltd. Process for treating wollastonite.
- 538/Mas/88. Moore Products Co. Multi-frequency capacitance sensor.

The 28th July 1988

- 539/Mas/88. Institut Francais Du Petrole. A method and device for improving the coefficient of transmission to geological formations of energy created by a well seismic source.
- 540/Mas/88. British-American Tobacco Company Limited. Tobacco Feed Apparatus. (July 31, 1987; United Kingdom).
- 541/Mas/88. Institut Francais Du Petrole. Process for producing a substantially anhydrous alcohol comprising at least 2 carbon atoms by distilling and extracting an aqueous solution of the alcohol.

542/Mas/88. Davy McKEE (London) Limited. Catalyst.

(2)

543/Mas/88. W. I. Gore & Associates, Inc. An article for the treatment of periodical disease. (Divisional to Patent Application No. 246/Mas/85).

156862 156863 156864 156865 156866 156867 156868
156869.

(3)

544/Mas/88. W. I. Gore & Associates, Inc. An article for the treatment of periodical disease. (Divisional to Patent Application No. 246/Mas/85).

156870 156871 156872 156873 156874 156875 156876
156877 156878 156879 156880 156881 156882 156883
156884 156885 156886 156887 156888 156889 156890
156891 156892 156893 156894 156895 156896 156897
156898 156899 156900

(4)

546/Mas/88. Silkbell Limited. Sprinkling device.

547/Mas/88. Digital Equipment Corporation. Apparatus and method for storing performance parameters of local area network system members.

156901 156902 156903 156904 156905 156906 156907
156908 156909 156910 156911 156912 156913 156914
156915 156916 156917 156918 156919 156920 156921
156922 156923 156924 156925 156926 156927 156928
156929 156930 156931 156932 156933 156934 156935

ALTERATION OF DATE

163345

(924/Mas/84)

Ante dated to 4th January, 1982.

PATENTS SEALED

146881 147985 147988 149652 152068 153108 156116
157327 158324 158589 159763 159785 159789 159794
159820 159828 160035 160138 160312 160379 160380
160530 160566 160575 160665 160669 160731 160732
160742 160817 160848 160879 160910 160939 160955
161007 161016 161033 161034 161036 161045 161047
161050 161054 161058 161061 161119 161172 161179
161616 161864.

AMENDMENT PROCEEDINGS UNDER SECTION 57

(1)

The Opposition entered by M/s. Union Carbide India Limited to the grant of a Patent on Application No. 149055 made by Shri Ramachandra Sivaramakrishnan as notified in the Gazette of India, Part III, Section 2 dated 20th March, 1982 has been partly allowed and the Patent has been ordered to be sealed on the Application subject to amendment of the Complete Specification.

(2)

An opposition has been entered by M/s. Polar Fan Industries Limited to the grant of a Patent on Application No. 161805 (684/Del/84) dated 15th May, 1985 made by M/s. The Jay Engineering Works Ltd.

The amendment proposed by Korne GMBH of Goerzallee 3-11, under section 57 of the Patents Act, 1970 to proceed the application for Patent No. 159078 in their changed name Korne Aktiengesellschaft, Beeskowdamm 3-11 has been allowed.

(2)

The amendment proposed by Davy McKee Aktiengesellschaft in respect of Patent application No. 157448 as advertised in Part III, Section 2 of the Gazette of India dated the 16th January, 1988 have been allowed.

(3)

Notice is hereby given that Mechanical Technology Incorporated of 968 Albany-Shaker Road, Latham, New York 12110 U.S.A., a corporation organised under the laws of the State of New York has/have made an application on form-29 under section 57 of The Patents Act, 1970 for amendment of specification of their application for patent No. 372/Del/85 for amending specification. The amendments are by way of correction. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110 005, or copies of the same can be had on payment of usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition in Form-30 within three months from the date of this notification at Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110005. If the Written Statement of Opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

(4)

Notice is hereby given that B.B.C Brown, Boveri & Company Ltd., CH-5401, Baden, Switzerland, have made an Application under Section 57n of the Patents Act, 1970, for amendment of the Application, Specification and Drawings of the Patent Application No. 162697 for "Static Converter Transformer". The amendments are by way of correction. The application for amendment and proposed amendments can be inspected free of charge at the Patent Office, 61.

OPPOSITION PROCEEDINGS

(1)

The Opposition entered by M/s. Union Carbide India Limited to the grant of a Patent on Application No. 149055 made by Shri Ramachandra Sivaramakrishnan as notified in the Gazette of India, Part III, Section 2 dated 20th March, 1982 has been partly allowed and the Patent has been ordered to be sealed on the Application subject to amendment of the Complete Specification.

(2)

An opposition has been entered by M/s. Polar Fan Industries Limited to the grant of a Patent on Application No. 161805 (684/Del/84) dated 15th May, 1985 made by M/s. The Jay Engineering Works Ltd.

CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

(1)

The claim made by Setafin S. A. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 162217 in their name has been allowed.

(2)

The claim made by Andrew AG under Section 20(1) of the Patents Act, 1970 to proceed the Application for Patent No. 160421 in their name has been allowed.

(3)

The claim made by Degussa Aktiengesellschaft under Section 20(1) of the Patents Act, 1970 to proceed the Application for Patent No. 160110 in their name has been allowed.

PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the patent Office, Calcutta, and its branches at Bombay, Madras, and New Delhi at two rupees per copy :—

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Wallajah Road, Madras-600 002 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form-30 within a month from the date of the Notification at the Patent Office, Madras. If Written Statement of Opposition, is not filed with the Notice of Opposition, it shall be left within one month from the date of filing the said Notice.

(5)

Notice is hereby given that Thos. W. Ward (Railway Engineers) Limited, a British Company of Midland Foundry, Osmaston Street, Sandiacre, Nottingham NG10 5AN, United Kingdom have made an application under section 57 of the Patents Act, 1970 for amendment of application & Specification in respect of their application for Patent No. 161934 for "Welded railway crossing vee and method of forming the same". The amendments are by way of correction. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office, 234/4, Acharya Jagadish Bose Road, Calcutta-700020 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for

amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

(6)

Notice is hereby given that the Stamicarbon B. V. (licensing subsidiary of DSM) of P. O. Box No. 10, Geleen, the Netherlands, have made an application under Section 57 of the Patents Act, 1970, for amendment of specification of their Application for Patent No. 162723 for "Improved process for recovering Caprolactam from residue". The amendments are by way of correction. The Application for amendments and the proposed amendments can be inspected free of charge at the Patent Office, 61, Wallajah Road, Madras-600 002 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form-30 within 3 months from the date of the Notification at the Patent Office, Madras. If the Written Statement of Opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filing the said Notice.

COMMERCIAL WORKING OF PATENTED INVENTIONS

MECHANICAL LIST NO. I (DELHI)

The following patents in the field of Mechanical & General Engineering Industry are not being commercially worked in India as admitted by patentees in the statements filed by them under Section 146(2) of Patents Act, 1970 in respect of calendar year 1987 generally on account of want of request for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of licence for the purpose.

Patent No.	Date of Patent	Name and address of the Patentee	Title of the invention.
1	2	3	4
157504	23-12-1981	Alsthom-Atlantique, 38 Avenue Kleber, 75784 Paris Cedex 26, France.	A diffuser adopted to bleed through the wall.
153008	20-9-1979	American Flange & Manufacturing, Company, INC 1100 West Blancke Street, Linden, New Jersey U.S.A.	Nestable moulded plastic pouring spout assembly.
148872	27-1-1978	Do.	Closure plug.
150694	23-5-1979	Arbed Acieries Reunies de Burbach-eich-Dudelange Societe Anonyme. Avenue de la Liberte, P.B. No. 1802, Luxembourg, Grand Duchy of Luxembourg.	Apparatus for cooling rolled metal products.
158440	19-10-1982	Bonas Machine Co. Ltd., Pallion Industrial Estate Sunderland SR 6 SX England.	A yarn feed device for a rapier weaving machine.
156887	24-8-1981	British Underwater Pipeline Engineering Ltd. Factory No. B1 303/2C, Walney Road, Barrow-in-furness, Cumbria, LA 14 5UG. Great Britain.	A tool for use in securing a structure to a tubular pile inserted into the sea bed.
148171	1-8-1978	Charcon Tunnels Limited, of Southwell Lane, Krikby-in-Ashfield, Nottinghamshire. NG 17 8 PN, England.	Improvements in or relating to wall segments.
157782	19-1-1982	Chemiefaser Lenzing Aktiengesellschaft, A-4860 Lenzing, Austria.	Improvements in or relating to a filtering apparatus for separating solids and suspended particles from liquids.
148613	26-12-1977	Christopher Tidlotson Brown, of 1, Yarraburg Road, St. Ives, New South Wales 2075, Australia.	An improved armour unit for wave energy absorption.

1	2	3	4
148099	19-12-1977	Clark & Vicario Corporation of 9620 Executive Center Drive North St. Petersburg, Florida 33702, U.S.A.	Apparatus for cleaning and deaerating a suspension of paper making stock.
153414	28-11-1979	Do.	Method and apparatus for collecting and conveying liquids.
153810	12-3-1980	Do.	Apparatus for cleaning and deaerating an aqueous suspension of paper making stock.
156784	8-7-1981	Compagnie Francaise De Aciers Speciaux, 8 Rue de la Rochefoucaults, 75009 Paris, France.	Process for the forging of axles or shafts for railway rolling stock.
146773	8-8-1977	Council of Scientific & Industrial Research Rafi Marg, New Delhi-1, India.	A precision wire tensioner.
149249	17-5-1979	Do.	An improved apparatus for the simultaneous determination of carbon, hydrogen and halogen or sulphur or inorganic matter, coke and coal, steel and like materials.
150486	18-3-1980	Do.	The continuous process for the surface graining of aluminium foil for aluminium offset lithographic plates used in duplicating machine.
151381	20-10-1978	Do.	An improved table press machine for the manufacture of sand-lime bricks.
152137	22-5-1979	Do.	Improved hydraulically driven circumferential prestressing machine.
152855	4-8-1979	Do.	Improvements in or relating process for producing fuel lighters fuel briquettes for the combustion of solid fuels in domestic or like ovens.
152996	19-9-1980	Do.	An improved resistant antivibration mounting for a machine to be fitted on a foundation or supporting structure.
153023	22-8-1979	Do.	Multi stage atomising burner.
153301	31-1-1981	Do.	An improved rotary kiln for carrying out chemical reaction between solids and liquids.
153423	12-11-1980	Do.	Improved method of fabrication of space joints and structure formed thereof.
154410	26-9-1981	Do.	An improved device for static testing of fatigue parameters of cars and slow moving vehicle.
156025	30-3-1981	Do.	Improved liquid fuel fired industrial burners.
156163	2-9-1982	Do.	An improved hot air generator fired by particulate fuels.
157677	31-12-1981	Do.	An improved liquid fuel burner for industrial furnaces.
157696	26-2-1982	Do.	An improved liquid fuel fired burner.
157849	25-6-1982	Do.	A machine for internal and/or external surface coating of steel pipes with concrete or cement mortar.
157850	30-6-1982	Do.	A composite multi section quick release centering prop for use in-situ concrete constructions.

1	2	3	4
147493	1-11-1977	Compagnie Francaise D'Etudes Et De Construction "Technip" of 232 Avenue Nopoleon-Bonaparte 92500 Fueil Malnaison, France.	Device for winding tubes around vertical and stationary cores.
135149	8-12-1980	Do.	Method and apparatus for cooling and liquefying a dry gas having a low boiling point.
154080	1-5-1980	Dunlop Limited, Dunlop House, Ryder Street, St. James's London SW 1 Y 6PX, England.	Integrally moulded shuttlecock skirt and a shuttlecock having such a skirt.
156071	20-5-1981	Fabcon incorporated of 965 Mission Boulevard, Suite 730, San Francisco, California, 94103, U.S.A.	Improved mill roll.
148309	10-8-1978	G.D. Societa per Azioni, of via pomponja 10, 40133 Bologna, Italy.	Apparatus for folding cutout elements in machines for packaging articles.
152719	24-7-1979	Do.	Variable capacity reservoir for bar shaped elements, particularly cigarettes.
154284	5-5-1980	Do.	A manufacturing machine for simultaneously producing two continuous cigarette rods.
154376	20-5-1980	Do.	Trimmer device for the tobacco filler in a cigarette manufacturing machine.
154750	3-10-1980	Do.	Strip guiding device.
155355	2-2-1981	Do.	A nodular section to be inserted as a unit into an open end spinning machine.
154933	6-11-1980	Do.	Cigarette manufacturing machine of the continuous rod type.
155890	21-4-1981	Do.	Machine for producing two continuous cigarette rods.
157114	19-10-1981	Do.	Device for replacing a first, empty reel of strip material with a second, new reel.
157568	29-1-1982	Do.	A cigarette-making machine.
158538	4-11-1982	Do.	Cigarette transfer device.
153240	23-10-1979	I.S.C. Smelting Ltd., 6th St. James's Square, SW1Y, LD, England.	Lead splash condenser.
148667	2-8-1978	John Derek Guest of Iona, Cannon Hill Way, Bray Maidenhead Berkshire, England.	Improvements in or relating to couplings for tubes.
152011	27-4-1979	Karlstads Handels Och Konsult AB, Box. 548 65109, Karlstad, Sweden.	A ship having means for dividing the free liquid surface contained therein.
158443	21-12-1979	Kronos Inc., 355 Western Avenue, Boston, Massachusetts 02135, U.S.A.	Time clock recording and computation apparatus for use with a time and other data card.
158444	21-12-1979	Do.	Time card means adapted for employment in a time clock apparatus.
158446	21-12-1979	Kronos, Inc., 355 Western Avenue, Boston Massachusetts 02135, W.S.A.	Time clock apparatus.
158457	21-12-1979	Do.	Time clock recording and computation apparatus.
148203	21-7-1978	Lodge-Cottrell Limited, of George Street Parade, Birmingham B3 1QQ, England.	Improvements in or relating to fume, extraction.
148204	4-8-1978	Do.	Improvements in or relating to gas treatment plant.
150192	10-11-1978	Do.	Improvements in or relating to fume containment.

1	2	3	4
153542	5-12-1979	Marshall Richards Barton Ltd., Grook, County Durham DL 15 8 JU, England.	Improved wire drawing method and apparatus and the wire made therefrom.
148833	30-4-1977	Mobil Solar Energy Corporation, at 16 Hicory Drive, Waltham, Massachusetts, U.S.A.	Cartridge and furnace for crystal growth.
150245	3-11-1978	Do.	Manufacture of solar cells.
157694	19-2-1982	Do.	Apparatus for growing a crystalline ribbon-like body from a melt.
158117	21-7-1982	Do.	Apparatus for growing tubular crystalline bodies.
148769	10-7-1978	Myron Grant Hampton and David John Milling, The Pippins, Peppard Common Hanley-on-Thames Oxfordshire & Bramblings South Stoke Road, Woodcok, North Reading Berkshire, England.	Method and apparatus for drying tea and tea when dried thereby.
153984	1-4-1980	Noyes Bros., Pty Limited, of 12 Frederners Street, St. Leonards, New South Wales 2065, Australia.	A transport vehicle.
157262	10-8-1981	Peabody Holmes Limited Turnbridge, Huddersfield HD1 6RB England.	Fluid injector.
157388	10-8-1981	Do.	Fluid injector.
148126	25-7-1978	Pandrol Limited, 9 Holborn, London EC 1N 2NE England.	Apparatus and a method for bending rods in making railway rail-fastening clips.
155586	14-7-1980	Do.	A railway -fastening clip.
156087	18-6-1981	P.L.V. Antrieb Werner Reimers GmbH & Co. Kg. Industriestrasse, 3, D 6380, Bad Homburg 1, F.R.G.	Infinitely variable cone-pulley transmission.
156088	18-6-1981	Do.	Side-bar chain for infinitely variable cone-pulley transmissions.
155718	26-3-1981	Quadrant Drive B.U. of Lomboklaun.	Rotary motion transmitting device having a toothed wheel and independently movable meshing elements.
157802	11-3-1982	Quigley Company Inc. 236 East, 42nd Street New York, State of New York, U.S.A.	A method of forming a monolithic refractory layer on the inner surface of metallurgical vessel.
151467	27-3-1979	Robert Joseph Aresty, 553 Pretty Brook Road, Princeton, New Jersey, W.S.A.	A solar energy collector apparatus.
154399	14-7-1980	Shell Internationale Research Maatschappij B.V. Carel Van Bylandtlaan 30, The Hague, The Netherlands.	A dispenser.
155357	4-2-1981	Societe Alsacienne De, Constructions Me Caniques, de mulhouse, of 1 Rue de la Fonderie, 68054 Mulhouse, Franco.	Device for the insertion of a weft thread into the shed of a weaving loom.
155664	6-3-1981	Societa Pneumatici pirelli S.T.A., of Piazzale Cadorna 5, Milan Italy.	Process for manufacturing radial tyres and radial tyres produced by the process.
146871	15-12-1977	Societe pour Le Developpement Et L'Exploitation Du Palmier, Palmier A Hullc, of Ivory Coast of Boite postale 2049, Abidjan, Ivory Coast and Bertin and Cie, of France of Boite Postale No. 3, 78370, Tlaisier, France.	Apparatus for separation of the inner kernel from the shell of fruits.
153560	26-12-1979	Sport Australia (Export) Pty Limited, 9 Bowden Stree, Alexandria, New South Wales 2015, Australia.	Method of treating a cricket bat to prevent or retard occurrence of splits in the toe thereof and cricket bats so treated.

1	2	3	4
146363	30-9-1977	Tesa S.A. of Rue Bugnon 38, 1020 Renens, Switzerland.	Improvements to micrometers for interior or internal measurements.
148259	13-12-1977	Tesa S.A. of Rue Bugnon 38, 1020, Renens, Switzerland.	Flat segment bevel lever for micrometer and gauges.
148480	3-4-1978	Do.	Interior gauge for measuring the diameter of bores of machined workpiece.
148557	22-2-1978	Do.	A shock absorbing device for use in dial measuring instruments.
153420	5-12-1979	The Laitram Corporation, 220 Laitra Lane, Harahan, Louisiana, U.S.A.	LADDER.
147574	7-11-1977	USS Engineers and Consultants, Inc., 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Sliding gate valve.
147686	20-8-1975	Do.	Apparatus for locating improperly positioned rolls in a curved roof-rack.
147808	29-9-1977	Do.	A sliding gate valve for a teeming vessel.
148421	2-2-1978	Do.	Improved slide gate valve apparatus.
152237	30-5-1979	Do.	A removable plate assembly for use in a rotary gate valve for teeming molten metal. An apparatus for controlling the flow of liquid metal from the pour opening of a teeming vessel.
153103	17-9-1979	Do.	
155012	21-11-1980	Do.	A refractory article and method for making the same.
157950	2-6-1982	Vallourec, 7 Place du Chancelier Adenauer, 75017 Paris, France.	Apparatus for the controlled introduction into a fusion bath of treatment material therefor in the form of a continuous wire.

COMMERCIAL WORKING OF PATENTED INVENTION

CHEMICAL LIST NO. I (DELHI)

The following patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by Patentees in the statements filed by them under Section 146(2) of Patents Act, 1970 in respect of calendar year 1987 generally on account of want of request for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent	Name & address of the Patentee	Title of the invention.
1	2	3	4
156128	1-4-1981	Biogen N. V. 25, Tietermaai, Willemstad Curacao Netherlands.	Method for producing a polypeptide of the IFN-B type.
156072	8-6-1981	B.N.F. Metals Technology Centre, Grove Laboratories, Denchworth Road, Wantage, Oxfordshire OX12 9BJ, England.	Continuous method for removing copper from lead.
155028	10-10-1980	Chemie Linz Actiengesellschaft, St. Peter Street Se. 25, 5020, Linz, Austria.	A raw meal composition for use in production of cement and sulphuric acid and a process for preparing said composition.
150163	28-9-1978	Do.	Process for the preparation of anhydrous aluminium fluoride.
153679	29-1-1980	CPC International, Inc., International Plaza, Englewood Cliffs, New Jersey, 07632, U.S.A.	Process and installation for the continuous manufacture of starch adhesives.
143334	19-11-1975	Council of Scientific & Industrial Research, Rafi Marg, New Delhi-1, India.	Process for the extraction of nickel and cobalt values from lateritic and limonetic nickeliferous ores.
143659	17-10-1975	Do.	Improvements in or relating to preparation of pigment grade calcium chromate.

1	2	3	4
143818	12-5-1976	Council of Scientific & Industrial Research, Rafi Marg, New Delhi-1, India.	A process for preparing a new fire extinguish- ing material for extinction of fires in flammable liquids.
144000	13-6-1975	Do.	Improvements in or relating to soak clean- ing of steel contaminated with oil.
146476	17-6-1977	Do.	Process for the preparation of anionic stabi- lised fatliquors from animal oils (cattle oils and 60).
148321	25-9-1978	Do.	Improved process for the preparation of Sodium stearoyl-2-actylate.
150416	31-12-1979	Do.	Preparation of water displacing/rust pre- ventive oil for protection of metal from cor- rosion.
151088	10-4-1980	Do.	A process for the production of immobilised pancreatic enzyme bates for use in leather manufacture.
151089	10-4-1980	Do.	An improved process for bating of skins and hides using immobilised pancreatic enzyme product for the manufacture of leather.
151656	17-5-1979	Do.	An improved process for the preparation of anisole o-cresol and 2, 6-xyleneol.
151661	19-4-1980	Do.	A process for the preparation of anticorrosion primer.
152041	18-2-1980	Do.	Process for the preparation of corrosion inhibiting additive composition for steel pipes of heat exchangers.
152241	5-6-1979	Do.	A process for purification and enrichment of low grade molybdenite concentrates.
152242	5-6-1979	Do.	An improved process for purification and enrichment of low grade molybdenite con- centrates.
152857	27-8-1980	Do.	Improved heat resistant paints of steel and like metal structures.
153227	23-12-1980	Do.	Composite silicon refractory products.
153246	4-12-1980	Do.	A process for the preparation of an improved enzyme bate for use in leather manufacture.
153299	19-9-1980	Do.	A process for the preparation of a vegetable selftanning material from caesalpiniscoraria or dividiviponds for use in leather industry.
153337	30-10-1980	Do.	A process for the preparation of sea water cor- rosion inhibitors additive substance from ripe fruits of a vegetable plant cordia rothii for protection of metal surface.
153415	6-3-1981	Do.	Process for the isolation from neem oil of active principles evincing vibration deterrent activity in insects.
153508	19-12-1979	Do.	Process for the production of heat absorbing glass.
153765	23-4-1981	Do.	An improved process for recovery of tin metal from tin scruff.
153841	11-5-1981	Do.	A process for the preparation of aluminium, calcium and ferrous and the like metal values from high ash washery tailings, fly ash and alike coal waste materials.

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153877	18-3-1980	Council of Scientific & Industrial Research, Rafi Marg, New Delhi-1, India.	A process for the preparation of improved polymeric acrylic resin emulsion for use as binders for pigments in leather industry.
154053	7-11-1981	Do.	Improvements relating to the production of petroleum coke from petroleum crude residues.
154054	7-11-1981	Do.	Improved process for the production of petroleum coke substitute from coal products.
154335	22-8-1981	Do.	A process for production of iron ore concentrate from low grade iron ores having hydrated iron oxide.
154668	8-8-1980	Do.	An improved process for the preparation of synthetic Scollites of the faujasite group.
154669	9-18-81	Do.	Process for the preparation of a Catalyst composite material useful for the conversion of alcohols to hydrocarbons.
154702	16-12-1980	Do.	Improved single step process for the conversion of toluene to xylenes.
154929	28-1-1982	Do.	Process for the preparation of improved primer paints for protection of rusted steel structures.
155137	25-10-1980	Do.	A chemical process for demineralisation of carbonaceous materials such as coal and coke.
155444	27-2-1981	Do.	Process for the extraction and sulphurization of JOJOBA oil for use as a lubricant.
155599	5-6-1982	Do.	An improved process for the production of ergotamine from ergot.
156212	28-8-1982	Do.	An improved process for the production of sponge iron.
156460	12-6-1981	Do.	Production of stabilized cost oil slurry.
156912	30-9-1981	Do.	An improved anti-corrosive paint particularly useful as primer in Marine Environment.
157060	30-12-1982	Do.	An improved high build anticorrosive paint composition for use in marine environments.
157061	30-9-1981	Do.	Improved process for the disproportionation of toluene to a mixture of benzene and xylene.
157263	10-11-1982	Do.	An improved process for soldering of copper and ferrous work pieces.
157264	13-8-1982	Do.	Apparatus and method for the simultaneous production of hydrogen and carbon monoxide separately or as a gaseous mixture.
157488	5-11-1981	Do.	Improved process for the preparation of ethyl α -(carboethoxy) β . (substituted anilina) acrylates.
157603	19-2-1982	Do.	An improved process for immersion coating of steel substrates with copper.
157728	24-3-1983	Do.	A Process for the synthesis of 2 Bis (2-chloroethyl) amino 3, 6 Diaryl-3-4 Dihydro-1, 3,2, Oxazaphosphorin-2-oxides.
157865	25-6-1983	Do.	Process for the preparation of plasticizer material for use in plastic industry.

1	2	3	4
157886	19-5-1982	Council of Scientific & Industrial Research Rafi Marg, New Delhi-1, India.	A process for chemical phosphating of ferrous substrates.
158085	25-6-1982	Do.	An improved process for the preparation of stable manganous oxide (MnO ₂).
158257	16-6-1983	Do.	An improved continuous process for the preparation of m-Dinitro benzene by catalytic hydrogenation.
158462	23-10-1982	Do.	A process for the preparation of catalyst for isomerisation of alkyl aromatic compounds.
158471	24-7-1982	Do.	Process for the preparation of diosgenin horse redish peroxidase conjugates for use in the determination of diosgenin in plant material.
158491	21-9-1983	Do.	An improved process for the preparation of N-alkyl-di-isopropanolamines.
158574	1-9-1982	Do.	An improved process for the preparation of thermoplastic polyurethanes polymers.
155304	20-1-1981	Davy McKee (Stockton) Ltd., Stockton-on Tees, England TS18 3RE, U.K.	Method and apparatus for the direct reduction of materials containing iron oxides.
154556	19-8-1980	Dr. Beck & Co. Ag., 2000 Hamburg 28, Grossmannstrasse 105, F.R.G.	Process for the manufacture of insulated winding wires through extrusion of thermoplastics.
158513	11-6-1982	Dr. Karl Thomae Gesellschaft Mit Beschranket Haftung, Biberach an der Riss, Federal Republic of Germany.	Process for the preparation of new oral dipyrnidamole preparations.
149383	3-10-1977	Donald Weston Bolme, of 5916, 123 RD Avenue South East, Bellevue, State of Washington, 98006, U.S.A.	A process for the removal of nitrogen oxides from industrial gases by use of oxidising solutions in which nitrates are the oxidants.
152477	26-6-1979	I.S.C. Smelting Limited of St. James's Square, London SW1Y 4LD, England.	Process for producing a zinc/lead oxide product suitable for briquetting.
153781	25-1-1980	Mobil Solar energy Corporation, of 16 Hickory Drive, Waltham, Massachusetts, U.S.A.	Apparatus for and method of growing crystalline body of silicon from a melt.
153503	14-12-1979	National Research Development Corporation, of Kings, gate House 66/74, Victoria Street, London SW1E, 6SV, England.	A method for the sterilisation of surfaces or liquids and surfaces thus sterilised.
154501	25-5-1980	Mobil Solar Energy Corporation at 16 Hickory Drive, Waltham, Massachusetts, U.S.A.	Method of growing a crystalline body silicon from a silicon melt.
157006	8-9-1981	Nitto Kagaku kogyo Kabushiki Kaisha, 5-1, Marunouchi, 1-chome, chiyoda-ku. Tokyo, Japan.	Stabilized aqueous solutions of acrylamide polymer composition.
153426	4-12-1979	Olga Meyer and Rainer Meyer 64. 7580 Bchl F.R.G.	A method for producing a protective coating for cathodically protected surfaces
154408	7-6-1980	Pfizer Inc., of 235 East 42nd Street, New York, State of New York, U.S.A.	Process for preparing a magnetically stable powder.
154693	15-9-1980	Do.	Process for deodizing and aspartyl- phenylalanine alkyl esters.
154694	15-9-1980	Do.	Process for the preparation of L-aspartic acid N-thiocarboxy anhydride.
155384	9-3-1981	Do.	A photolytically-catalyzed process of rearranging a 2-diazo-1-oxoceph-3-Em-4-Carboxylate to a caropen-2-Em-3-carboxylate.
156538	23-6-1981	Do	Process for preparing a microcapsules capable of being reconstituted by addition of water to pharmaceutical suspension of bacampicillin.

1	2	3	4
156884	21-8-1981	Pfizer inc., of 235 East 42nd Street New York State of New York U.S.A.	A process for converting 2-methoxyethyl 4-hydroxy 2-methyl-2H-1, 2-benzothiazine-3-carboxylate-1, 1-dioxide to piroxicam.
156975	9-6-1981	Do.	A process for the preparation of hypoglycemic 5 substituted oxazolidine-2, 4-Diones and pharmaceutically acceptable cationic salts thereof.
157669	4-1-1982	Do.	A process for the preparation of Biz-esters of methanediol with acetonides of ampicillin or amoxicillin and penicillanic acid 1, 1-dioxide.
157712	16-2-1982	Do	Process for the preparation of penicillanic acid esters.
158113	3-6-1982	Do.	Process for preparing novel bis-triazole derivatives.
158469	28-4-1982	Do.	A process for preparing water soluble benzothiazin dioxide salts.
154699	22-9-1980	Rohm and Haas Company of Independence Mall West, Philadelphia, PA 79105, U.S.A.	Process for tanning leather with acrylic polymer and mineral tanning agent.
145230	29-9-1977	Shell Internationale Research Maatschappij B.V. of Carel van Bylandtlaan 30, The Hague, The Netherlands.	Process and reactor for the partial combustion of pulverized coal.
145517	18-10-1977	Do.	Process for the preparation of hydrogen-rich gas.
145882	19-10-1977	Do.	Process for the separation of dry particulate matter from a hot gas.
146516	26-10-1977	Do.	Esterification of hydrocarbyl-substituted succinic anhydrides.
147049	21-11-1977	Do.	A process for the preparation of crystalline silicates.
147159	18-10-1977	Do.	Process for the preparation of hydrocarbons.
147317	22-12-1977	Do.	Method of manufacturing porous water permeable and not frost susceptible terracotta pavings usable as ground coating.
147546	19-10-1977	Do.	Improvements in a process for reactivating silver catalysts.
147547	19-10-1977	Do.	Improvements in the process for the production of ethylene oxide
147701	21-11-1977	Do.	A process for the preparation of catalyst composition.
147721	23-3-1977	Do.	Process for the production of ethylene oxide.
147831	22-7-1978	Do.	Process for the preparation of hydrocarbons.
148037	10-4-1978	Do.	Process for the catalytic cracking of crude petroleum fractions.
148281	27-2-1978	Do.	Process for the preparation of paraffinic and olefinic hydrocarbons.
148558	14-3-1978	Do.	A process for the dehydrogenation of hydrocarbons.
150526	16-1-1979	Do.	A process for the preparation of an aromatic hydrocarbon mixture.

1	2	3	4
151186	29-1-1979	Do.	Process for the catalytic cracking of hydrocarbon oils.
155447	3-3-1981	Do.	Process for the production of an elastomeric copolymer of an aromatic vinyl compound and a conjugated diene, suitable for use in the tread portion of a pneumatic tyre.
155977	21-4-1981	Do.	Process for preparing cyclopropane carboxylic acid ester derivatives.
155978	21-4-1981	Do.	Process for preparing a mixture of cisomers of cyclopropane carboxylic acid ester derivatives.
157490	16-11-1981	Do.	A process for preparing alkenes by a non-oxidative dehydrogenation process.
157710	9-2-1982	Do.	A method for the preparation of cyanobenzyl isopropyl phenyl acetate.
157781	22-12-1981	Do.	A process for the preparation of trihalomethylhydroxylactones and its cis Tautomeric Keto acid.
153363	20-11-1979	Smiths Industries Public Limited Co., 765 Finchley Road, London NW 11, 8DS England.	Apparatus for detecting the presence of liquid of other flowable substance and a detector system including said apparatus.
153556	30-11-1979	Societe Francobelge Dto Laminaires Et treilleries D-'Anvers, Hemiksen Belgium.	A process for the manufacturing of wire rods of a precipitation hardenable Al-Ng-Si alloy.
147648	15-6-1978	Solvay & Cie, 33, Rue du Prince Albert, B-1050, Brussels, Belgium.	Process for the preparation of aqueous suspension containing at least 65% by weight of calcium carbonate.
151034	10-1-1979	The Board of the Rubber Research Institute of Malaysia of 260 Jalan Ampang, Kuala Lumpur, Malaysia.	A method of stabilising hard latex against coagulation.
157094	11-9-1981	Ube Industries Limited 12-32, Nishi-Honmachi, 1-chome, Ube-shi, Yamaguchi-ken, Japan.	Process for producing hydroxylamine sulfate.

COMMERCIAL WORKING OF PATENTED INVENTIONS

The following patents in the field of Electrical Engineering Industry are not being commercially worked in India as admitted by Patentees in the statements filed by them under Section 146(2) of Patents Act, 1970 in respect of calendar year 1987 generally on account of want of request for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

1	2	3	4
153807	10-3-1980	Asea Aktiebolag, Vasteras, Sweden.	Converter for high voltage direct current power transmission.
155622	15-6-1981	Associated Tapchangers Ltd., Fulbourne Road, London E 17 4EQ, U.K.	An improved on-load tap selector.
154700	22-9-1980	Alsthom-Atlantique, of 38 Avenue Kleber, 75784, Paris Cedex 26, France.	A current transformer for a high-tension installation.
156219	16-6-1981	Do.	A electric shunt inductance winding for an electric power transport line.
158118	5-8-1982	Do.	Device for protecting metal objects situated in the environment of an intense magnetic field developed by an alternator rotor.

1	2	3	4
143016	19-11-1975	Council of Scientific & Industrial Research,, Rafi Marg, New Delhi-1, India.	Improvements in or relating to the manufacture of grids for transmitting tubes having thoriated tungsten cathodes.
147948	28-12-1977	Do.	An improved process for the simultaneous electrolytic production of zinc metal and manganese dioxide from zinc sulphide concentrates and manganese ores.
148110	18-3-1978	Do.	Improved process for the electrodeposition of Iron-Nickel alloy coatings on metal substrates.
149579	5-9-1979	Do.	Improvements in or relating to the electrolytic process for the preparation of grained aluminium plates for lithographic printing.
150471	11-9-1979	Do.	Improved process for the production of manganese metal by electrolysis.
152856	27-9-1980	Do.	A process for the production of improved corrosion resistant zinc coatings on steel substrates by electrode position.
153515	22-12-1980	Do.	An improved process for the electrodeposition of coating on metal substrates.
153551	5-1-1980	Do.	An improved antenna device for omnidirectional radio communications.
153823	12-6-1981	Do.	An improved process for the fabrication of porous bicarbon-air electrode or metal air cells and porous bicarbon air electrodes.
154403	21-7-1980	Do.	An electrochemical process for the production of 2-amino 4-nitro toluene from 0-nitro toluene.
154414	24-7-1981	Do.	An improved process for the production of salicylaldehyde by electrolytic reduction of salicylic acid.
154561	9-11-1981	Do.	An improved process for the production of plated metal substrates for use as flat plate collector for solar applications.
154570	14-12-1981	Do.	An improved process for stain proofing of electroformed copper foils for printed circuit applications.
154722	8-12-1981	Do.	An improved process for black chrome plating on electroformed copper Nickel foils for solar energy application.
155184	27-3-1982	Do.	An improved electrolytic cell suitable for the cathodic reduction of nitro-compounds to amino compounds.
155298	26-2-1982	Do.	An improved process for the production of blackened coating of metal substrates for use in solar application.
155863	29-7-1982	Do.	An electrochemical process for the preparation of benzaldehyde for benzal alcohol.
156036	4-3-1982	Do.	An improved process for the electrolytic deposition of copper tin alloys from cyanide baths on metal substrates.
156218	10-9-1982	Do.	Process for the electrochemical preparation of 2-furoic acid from furfuraldehyde.
156463	25-6-1981	Do.	An improved process for the electrolytic production of chromium deposition on nickel plated metal substrates.
157059	30-12-1982	Do.	Improvements in or relating to lithium manganese dioxide non-aqueous button cells.

1	2	3	4
157396	21-3-1983	Do.	Improvements in or relating immersion stripping of defective nickel electrodeposits from steel and stainless steel substrates.
157439	17-2-1983	Do.	An improved process for the electrodeposition of lead dioxide on titanium substrates.
157440	15-2-1983	Do.	An electrochemical process for the preparation of n-butyric acid from N-butanol using nickel oxyhydroxide anode.
157502	2-2-1983	Do.	An improved process for the production of spiral manganese dioxide electrodes for use in non-aqueous lithium batteries and electrodes so prepared.
157507	31-3-1983	Do.	Process for the electrochemical preparation of alkali metal chromate from chromium salts.
157566	26-4-1983	Do.	An improved electrolytic cell for production of magnesium metal by electrolysis of fused chloride.
157724	19-2-1983	Do.	An electrolytic process for the production of the p-aminophenol from p-nitrosophenol.
158256	23-4-1983	Do.	An improved process for the preparation of anhydrous magnesium chloride for use as cell feed for the electrolytic production of magnesium metal.
154850	24-9-1980	Dresser U.K. Limited, 197 Knights bridge, London SW 71 RJ, England.	Method of assembling electroprecipitate-discharge electrode and discharge electrode for the same.
155208	18-12-1980	Dr. Beek & Co., AG., of 200 Hamburg 28, Grossmannstrasse 105, Federal Republic of Germany.	Process for the production of winding wires having two insulating layers of different materials.
154510	22-7-1980	Georges Albersballique, of 29 Rue du Docteur Finlay, 73015, Paris, France.	Improvements in or relating to apparatus for recording control and early detection of cardiovascular diseases.
158465	3-11-1982	La Telemecanique Electrique, 33 bis Avenue du Marechal-Joffre, 92000 Nanterre, France.	A mechanically controlled switch with automatic opening for a protective limiting device.
158460	3-11-1982	Do.	A contactor apparatus.
158467	3-11-1982	Do.	Contacteur apparatus.
158481	13-9-1982	Do.	Electrical apparatus, particularly a relay or a small-size contactor.
148031	30-5-1978	Maschinenfabrik Reinhausen Gebrüder Schubeck GmbH & Co. K.G., 8 Falken Steinstrasse, 8400 Regensburg F.R.G.	A tap switch assembly for a tapped transformer.
149412	13-4-1978	Do.	Apparatus for causing stepwise switching of tap switches of a tapped transformer.
147667	19-10-1976	Mobil Tyco Solar Energy Corporation, 16 Hicory Drive, Waltham, Massachusetts, U.S.A.	Solar cell unit.
153555	15-1-1980	Mobil Solar Energy Corporation, 16, Hicory Drive, Waltham, Massachusetts, U.S.A.	System for monitoring the growth of a crystalline body of selected material from a liquid melt.
158517	21-7-1982	Do.	Method and apparatus for growing a crystallized body from a melt.
157249	16-9-1981	National Research Development Corporation, 66-74, Victoria, London SW 1, England.	Apparatus for controlling induction motors.
150146	25-5-1978	Shell International Research Maatschappij, B. V. The Hague, The Netherlands.	Photogalvanic cell.
153303	20-1-1981	Thomson-Csf, of 173 B1, Haussmann, 75008, Paris, France.	A diversity Radio Transmission system.

RENEWAL FEES PAID

136883	142940	143326	143408	143666	143850	143884
144073	144291	144307	144498	144843	144930	145828
145925	145934	146004	146065	146141	146188	146307
146372	146772	147089	147098	147401	147456	147611
147631	147648	147766	147896	148035	148271	148507
148657	148658	148913	149249	149251	149452	149614
149965	149771	150004	150251	150312	150431	150540
150541	150699	150855	150988	151158	151306	151504
151505	151566	151620	151661	151712	151914	151935
152064	152130	152137	152224	152225	152233	152244
152304	152312	152316	152410	152414	152419	152477
152763	152783	152809	152963	153252	153324	163325
153326	153459	153668	153770	153841	154065	154169
154220	154307	154309	154383	154384	154385	154392
154459	154480	154503	154604	154643	154852	154881
154779	154958	155067	155069	155101	155374	155389
155432	155565	155595	155622	155779	155785	155892
155893	156030	156132	156240	156451	156535	156570
156575	156608	156655	156759	156760	157161	156762
156763	156822	156902	156997	157076	157145	157428
157496	157546	157547	157611	157685	157822	157872
157881	157886	157950	158133	158135	158254	158260
158331	158371	158403	158487	158513	158532	158658
158690	158816	158908	158969	159026	159029	159041
159180	159181	159182	159183	159209	159214	159215
159265	159285	159296	159316	159318	159322	159392
159407	159439	159476	159486	159540	159617	159618
159619	159625	159626	159679	159694	159698	159699
159702	159704	159705	159727	159731	159780	159781
159782	159848	159945	159946	159966	159983	160026
160048	160113	160117	160362	160690	160712	160808
160811	160812	160816	160819	160925	160935	160969
160988	160989	160991	160992	160993	160995	161000
161003	161005	161019	161020	161021	161027	161035
161048	161049	161065				

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration Patent No. 147286 dated the 15-2-78 made by Hindustan Lever Limited on the 22-4-87 and notified in the Gazette of India, Part III, Section 2 dated the 26-12-87 has been allowed and the said Patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 146610 dated the 17-6-77 made by Hindustan Lever Limited on the 22-4-87 and notified in the Gazette of India, Part III, Section 2 dated the 26-12-87 has been allowed and the said Patent restored.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1 No. 159136. Ralls Engineering Works, 21, Balaji Industrial Estate, Akurli Village, Kandivli (East), Bombay-400101, State of Maharashtra, India, an Indian Partnership firm. "Tiffin Carrier". 7th December, 1987.

Class 1. No. 159411. Praveen Grover, 46/18, East Patel Nagar, New Delhi-110008 (India). "Infant Feeding Bottle". 23rd February, 1988.

Class 1. No. 159656. F. & P. M. Smallman (Walsall) Limited, a British Company, of Lords Drive, Littleton Street, Walsall, WS2 8ES, England. "a Horse Brass". Reciprocity date is 3rd November, 1987 (U. K.).

Class 1. No. 159768. Quick-Stic Manufacturing Co. Pvt. Ltd., 1104, Raheja Chambers, 11th floor, Free Press Journal Marg, Nariman Point, Bombay-400021, Maharashtra, India, a private limited company incorporated under the Indian Companies Act. "Container". 1st June, 1988.

Class 1. Nos. 159821 & 159822. Mohd. Nisar, an Indian Proprietary Concern of 41/109, Nai Sarak, Kanpur, U. P., India. "Feerule for Brush". 15th June, 1988.

Class 1. No. 159839. Sunbeam Enterprises, A-6, Sardar Nagar, Delhi-110009, India. An Indian Partnership Concern. "Electric Press". 16th June, 1988.

Class 3. Nos. 159366 to 159369. Ing. Kurt Hofer, of A-1180 Vienna, Kalbeckgasse 6, Austria, an Austrian national. "Bottle". 2nd February, 1988.

Class 3. No. 159412. Praveen Grover, 46/18, East Patel Nagar, New Delhi-110008 (India). "Infant Feeding Bottle". 23rd February, 1988.

Class 3. Nos. 159526 & 159527. Femina Pen Industries 2/1, Nanda Ram Sen 1st Lane, Calcutta-5 West Bengal, India. "Sketch Pen". 28th March, 1988.

Class 3. No. 159593. Kurt Stoll, of Lenzhalde 72,7300 Esslingen, West Germany, West German National. "a Writing Implement". 12th April, 1988.

Class 3. No. 159467. Femina Pen Industries 2/1, Nandaram Sen 1st Lane, Calcutta-5, West Bengal, India. "Ball Pen". 9th March, 1988.

Class 3. Nos. 159528, 159520 to 159533. Femina Pen Industries 2/1, Nanda Ram Sen 1st Lane, Calcutta-5, West Bengal, India. "Ball Pen". 28th March, 1988.

Class 3. Nos. 159203 to 159206. AB Akerlund & Rausing, a Swedish Joint-stock Company, of P. O. Box 22, 221 00 Lund, Sweden, a "package". 28th December, 1987.

Class 3. No. 159769. Raigad Industries, C-30, Royal Industrial Estate, 5-B, Naigaum Cross Road, Wadala, City of Bombay-400031, State of Maharashtra, India, an Indian Partnership firm. "Electric Switches". 1st June, 1988.

Class 3. No. 159449. Wallfrin International, 1st floor, 114/115, Bussa Industrial Estate, Near Century Bazar, Bombay-400025, Maharashtra, India, an Indian Partnership firm. "School Bag". 2nd March, 1988.

Class 3. 159464. Classic Collections, Sole Proprietary Concern, whose address is 216-C, Mayur Building, Sodawala Lane, S. V. P. Road, Borivli (West), Bombay-400096, in the State of Maharashtra. "Powder Puff". 7th March, 1988.

Class 3. No. 159608. Reckitt & Colman Products Limited, a British Company of one Burlington Lane, London W4 2RW, United Kingdom. "Dispenser for solid material". Reciprocity date is 4th December, 1987 (U. K.).

Class 3. No. 159529. Femina Pen Industries, 2/1, Nandaram Sen 1st Lane, Calcutta-5, West Bengal, India. "Ball Pen". 28th March, 1988.

Class 3. Nos. 159857 to 159859. Femina Pen Industries, 2/1 Nandaram Sen 1st Lane, Calcutta-5, West Bengal, India. "Ball Pen". 20th June, 1988.

Class 3. No. 159548. Eagle Flask Private Limited, (a company incorporated under the provisions of Indian Companies Act) at Eagle Estate, Talegaon-410507, District-Pune, State of Maharashtra, India. "Vacuum Jug". 29th March, 1988.

Class 3. No. 159550. Eagle Flask Private Limited. (a company incorporated under the provisions of Indian Companies Act) at Eagle Estate, Talegaon-410507, District-Pune, Maharashtra State, India. "Container". 29th March, 1988.

Class 3. Nos. 159638 to 159645 & 159637. Bata India Limited, 30, Shakespeare Sarani, Calcutta-700 017, West Bengal, India. "a sole for the footwear". 27th April, 1988.

Class 10. Nos. 159646 to 159654. Bata India Limited, 30, Shakespeare Sarani, Calcutta-700 017, West Bengal, India. "Footwear". 27th April, 1988.

Extn. of Copyright for the Second period of five years.

Nos. 153926, 153685, 152227, 153041, 158211, 158812, 158815, 153579, 153219, 158448, 153355 Class-1.

Nos. 153398, 153215, 153192, 152281, 153684, 158813, 158816, 157264, 157265, 157157, 158698, 157266, 157136 Class-3.

Nos. 153270, 153696, 153271, 153520, 153325, 158814, 158817, 153146, 153147, 153148, 153149, 153150, 153151, 153152. Class-4.

No. 153515. Class-5.

Nos. 153547, 153602, 153546. Class-12.

Nos. 153600, 153599, 153597, 153601. Class-13.

Extn. of Copyright for the Third period of five years.

Nos. 158211, 158812, 158815, 153219, 158448. Class-1.

Nos. 158813, 158816, 157264, 157265, 157157, 157158, 157266, 157136 Class-3.

Nos. 153696, 158814, 158817. Class-4.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classification s given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application

to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

CLASS : 172-F, D₄.

163321

Int. Cl. : D 02 g 1/00, 3/00; D 02 j 3/00, 13/00.

A PROCESS OF AND DEVICE FOR MANUFACTURE FOR COVERED YARNS.

Applicant & Inventor : BROJENDRA LAL BANERJEE, OF 8B, SEBAK BAIDYA STREET, CALCUTTA-700 029, WEST BENGAL, INDIA.

Application No. 360/Cal/84 filed May 26, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A process of manufacture for covered yarns comprising spun yarns of one type of fibres or a blend of different types of fibres in the core and a deposit of fibres of one type or a blend of different types or of materials of one type or a blend of different types, bonded to the surface of said yarns in the core characterised in that an adhesive material is first applied continuously and uniformly to the surface of said yarns in the core and said other fibres or materials are then deposited and held in position thereon under heat and pressure, as said yarns are drawn through the machine at a predetermined speed.

Compl. Specn. 9 pages.

Dr. 1 sheet.

CLASS : 14-A₂.

163322

Int. Cl. : B 01 j 6/00; H 01 m 35/32, 39/00.

APPARATUS AND METHOD FOR FUSING BATTERY TERMINALS.

Applicant : GNB BATTERIES INC., OF 1110 HIGHWAY 110, MENOTA HEIGHTS, MINNESOTA 55118, UNITED STATES OF AMERICA.

Inventors : 1. DAVID LEE LUND. 2. SENAJIT JI-TENDRA MAJUMDAR. 3. WILLIAM EDWARD MUL-LANE. 4. LOUIS KRIVANEK.

Application No. 620/Cal/84 filed September 6, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

26 Claims

An apparatus for fusing the end of a battery cell terminal post to the end of a hollow bushing fixed in a plastic cover of a battery being assembled and within which the terminal post is concentrically disposed comprising :

an induction heating coil,

means for supporting said induction heating coil in predetermined orientation,

means defining a mold cavity supported in concentric relation to said coil,

means for supporting said battery being assembled,

means for selectively moving said battery and coil relative to each other such that the ends of the terminal post and bushing of the battery are positioned into said mold cavity and in operative relation to said induction heating coil, and

means for generating high-frequency oscillating current in said coil, and

means disposed concentrically within said coil and immediately adjacent said mold cavity defining means for concentrating an induced current flow in the ends of the battery post and bushing positioned in said mold cavity and in operative relation to said coil for heating, melting and fusing said ends together in finished fused form in response to generating a high frequency oscillating current in said coil.

Compl. Specn. 30 pages.

Drgs. 5 sheets.

CLASS :

163323

Int. Cl. : B 01 j 8/20, 8/24.

A METHOD OF PRODUCING A SUSPENSION OF FLY ASH IN WATER AND AN INSTALLATION THEREFOR.

Applicant : ZAKLADY PRODUKCJI UR@ADZEN MECHANICZNYCH IM. JANKA KRASICKIEGO "ELWO" OF UL. BIELSKA 44, PSZCZYNA, POLAND, AND BIURO STUDIOW I PROJEKTOW ENERGETYCZNYCH "ENERGOPROJEKT" OF UL. JESIONOWA 15, KATOWICE, POLAND.

Inventors : 1. ANTONI SATERNUS, 2. LUDWIK MICZEK, 3. MIECZYSLAW BARTNIK.

Application No. 868/Cal/84 filed December 14, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A method for the continuous producing of a suspension of fly-ash in water having a concentration of 0.5 to 2.5 parts ash to 1 part water in a flow mixer including a moisturization zone, a homogenization zone, and a fluidization zone, which steps comprise :

- adding 1 part fly ash to 0.2 parts water by weight to the moisturization zone and slowly mixing to produce an intermediate product comprising a dense plastic non-fluid substance;
- homogenizing and dethickening the intermediate product by intensive non-turbulent mixing in the homogenization zone; and
- in the fluidization zone, adding water to obtain said concentration and turbulently mixing said intermediate product at increasing velocity gradients to electrostatically discharge said fly ash and form said suspension.

Compl. Specn. 11 pages.

Drg. 1 sheet.

CLASS :

163324

Int. Cl. : C 01 b 3/00.

PROCESS FOR AUTOTHERMAL PRODUCTION OF SYNTHESIS GAS AND APPARATUS THEREFOR.

Applicant : FLUOR CORPORATION, 3333 MICHELSON DRIVE, IRVINE, CALIFORNIA 92730, U. S. A.

Inventor : 1. JERRY LEE LEWIS.

Application No. 67/Cal/85 filed January 31, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

In an autothermal process for producing a synthesis gas for production of methanol, ammonia, hydrogen, oxo-alcohol or a hydrocarbon by fischer tropesch from a hydrocarbon feed stream, the improvement comprising reacting a mixture of steam and hydrocarbon feed gas by passing such mixture through a conventional catalyst system in counter current flow to the combustion reaction effluent of such process, to cool the reaction effluent and to provide heat for reaction of said steam feed gas mixture, and introducing oxygen or oxygen enriched air mixture containing an oxygen content of 25% or greater by volume to form said combustion reaction effluent.

Compl. Specn. 15 pages.

Drg. 1 sheet.

CLASS :

163325

Int. Cl. : C 01 g 31/00.

PROCESS FOR TREATMENT OF SPENT VANADIUM-CONTAINING CATALYSTS FOR RECOVERING VANADIUM AND OTHER PRODUCTS.

Applicant : INSTITUT METALLURGI I OBOGASCHENIA AKADEMII NAUK KAZAKHSKOI SSR OF ALMA-ATA ULITSA SHIVCHENKO 29/33, USSR.

Inventor : 1. ASKAR MINLIAKHMEDOVICH KUNAEV, 2. VLADILEN ALEXANDROVICH KOZLOV, 3. LARISA KHASANOVNA BATRAKOVA, 4. BULAT BALTAKAEVICH BEISEMBAEV, 5. ANDREI MAKAROVICH ALESHIN, 6. JULIA VIETOROVNA AZHIKINA, 7. LJUDMILA GRIGORIEVNA BEREXKINA, 8. SAUK TEMIRBAEVICH TAKEZHANOV, 9. KLARA ZEINULOVA KUANYSHEVA, 10. GENNADY LEONIDOVICH PASHKOV, 11. DMITRY VLADIMIROVICH ILINKOV, 12. ALEXANDR PETROVICH VOLOSHKIN, 13. PAVEL ILICH VOIPIN, 14. VASILY MIKHAILOVICH MOROZOV, 15. VITALY NIKITOVICH BALAK, 16. VLADIMIR AFANASIEVICH GUSARENKO, 17. NIKOLAI MIKHAILOVICH CHECHULIN, 18. JURY IVANOVICH OGORODNIKOV, 19. BORIS MIKHAILOVICH MASIENNIKOV, 20. ALMAZ MURZAEVICH BIKINEEV, 21. ANATOLY IVANOVICH MANOKHIN, 22. TAMERLAN SOSLANBEKOVICH SHISHKHANOV, 23. GENNADY KONSTANTINOVICH TARABRIN, 24. VLADIMIR LEONIDOVICH BESMAN, 25. ALEXANDR YAKOVLEVICH BAKAEV, 26. TAMARA VASILIEVAN MULINA, 27. TAMARA VASILIEVNA BOROKOVSKIKH, 28. VIKTOR GEORGIEVICH KUZMIN.

Application No. 546/Cal/85 filed July 23, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A process for the treatment of spent vanadium-containing catalysts for recovery of vanadium and other products comprising :

leaching of spent vanadium-containing catalysts in the presence of a reducing agent which is a solution of bivalent vanadium (II) to convert vanadium (V) into vanadium (IV) while maintaining a mass ratio of ions of bivalent vanadium (II), to ions of pentavalent vanadium (V) contained in the spent catalyst equal to 0.6—0.7 : 1 to obtain a pulp;

separation of the resulting pulp into a solution containing vanadium (IV) and a solid carrier;

an electrochemical treatment of a portion of a solution containing vanadium (IV) with application of electric current having cathodic density of 100 to 300A/m² at a temperature of 15 to 50°C to give a solution of bivalent vanadium (II) which is deli-

vered to the leaching stage, the amount of said portion of the solution containing vanadium (IV) being such that after said electrochemical treatment and recycling thereof to the leaching stage the ratio between the ions of bivalent vanadium (II) and the ions of pentavalent vanadium (V) be ensured equal to 0.6—0.7 : 1;

treatment of the remaining portion of the solution containing vanadium (IV) with an oxidizing agent to convert vanadium (IV) into vanadium (V);

extraction of vanadium (V) with aliphatic amines in a water-immiscible organic solvent pre-treated with sulphuric acid at a volume ratio of the extraction agent to sulphuric acid at a volume ratio of the extraction agent to sulphuric acid equal to 35—40 : 1 to give an extract and a raffinate;

re-extraction of vanadium (V) from the extract by containing it with an ammonia solution in the presence of ammonium persulphate at a mass ratio of ammonium persulphate to ions of tetravalent vanadium formed in the extract as a result of a partial reduction of vanadium (V) equal to 0.5—3 : 1 with the formation of an organic phase and an aqueous phase containing solid ammonium vanadate;

delivering the organic phase to the stage of extraction of vanadium (V);

filtration of solid ammonium vanadate to a residual moisture content of 50—60% and passing sulphuric acid through a bed thereof at a mass ratio of the acid to vanadium in ammonium vanadate equal to 1.2 : 3 to give vanadium pentoxide and a solution of ammonium sulphate;

evaporation of the solution of ammonium sulphate, followed by crystallization of ammonium sulphate;

evaporation of the raffinate produced as the stage of extraction followed by crystallization of aluminium-potassium alum;

treatment of a solid carrier separated from the pulp after the leaching stage with a 4-5% solution of sulphuric acid upon boiling with live steam for 1-2 hours to give a pulp containing a hydrochemically activated carrier;

separation of said pulp into a sulphuric-acid solution which is delivered to the stage of leaching and into a hydrochemically activated carrier which is fed to the preparation of a vanadium catalyst.

Compl. Specn. 30 pages.

Drg. 1 sheet.

CLASS : 94-A.

163326

Int. Cl. : B 02 c 17/00.

BALL MILL.

Applicant : VOEST-ALPINE AKTIENGESELLSCHAFT, OF A 4020 LINZ, MULDENSTRASSE 5, AUSTRIA.

Inventor : 1. ERICH PICHLMAIER, 2. MANFRED ZOLLER.

Application No. 672/Cal/85 filed September 23, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A rotatable cylindrical ball mill having a liner (1), which is formed with approximately peripherally extending, parallel grooves (2), which have the shape of a segment of a circle in cross-section, and grinding balls (3) disposed within said liner, wherein adjacent grooves (2) are separated by approximately peripherally extending

lands (4), characterized in that the center spacing (a) of adjacent grooves (2) is smaller than the diameter (b) of the largest grinding ball (3) and the side faces (5) of the ribs (4) are connected by a surpace (6) which is curved in cross-section.

Compl. Specn. 8 pages.

Drg. 1 sheet.

CLASS :

163327

Int. Cl. : F 16 t 1/00.

STEAM SEPARATOR.

Applicant & Inventor : 1. VLADIMIR DENISOVICH BELOUSOV, OF PODOISK, GULEVSKY PROEZO, 8/5, KV 21, USSR, 2. DMITRY GEORGIEVICH GOSTEV, 3. GENNADY VASILIEVICH GROMOV, 4. VLADIMIR IVANOVICH TROSHIN, 5. GALINA IOSIFOVAN TSO-FINA.

Application No. 899/Cal/85 filed December 13, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A steam separator for separation of moisture from a moisture laden gas whose shell provided with a pipe connection for admission of steam-gas mixture therein to houses at least one separating unit for separation of moisture from the steam-gas mixture with guide members at the inlet, and a pipe for discharge of the dehumidified steam gas mixture wherein the guide members are made in the form of a grill with passages whose walls have a rectilinear generatrix and are rhomboid in cross section.

Compl. Specn. 10 pages.

Drgs. 2 sheets.

CLASS :

163328

Int. Cl. : B 65 g 15/00.

BELT CONVEYOR.

Applicant : VSESOJUZYNY INSTITUT PO PROEKTIROVANIU ORGANIZATSII ENERGETICHESKOGO STROITELSTVA ORGENERGOSTRO I, OF VARSHAVSKOE SHOSSE, 17, MOSCOW, USSR.

Inventor : 1. VITALY VIKTOROVICH SAVINYKH, 2. ROBERT SEMENOVICH TILLES, 3. JURY ALEXANDROVICH YAKHONTOV, 4. VLARIMIR ANATOLIEVICH KRASNOV.

Application No. 78/Cal/86 filed February 03, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A belt conveyor comprising a sturdy frame accommodated wherein parallel to each other and to the axis of the conveyor are at least two taut lengthy pliable load-carrying members, such as ropes, linked with each other by medial rollers arranged therebetween and spaced a distance apart from each other, and a plurality of said rollers fitted to fulcrum pins making up an angle with a plane passing through the lengthy pliable load-carrying members, the fulcrum pins of the side rollers having supporting ends rigidly connected to linking means and the lengthy pliable load-carrying members, and the linking means pins of the rollers are connected

to the lengthy pliable load-carrying members with provision for displacing therewith in the vertical plane and the linking means are connected each with one end to the supporting ends of the fulcrum pins of the rollers, making an angle therewith, and are pivoted with the other end to the frame on the outer side of the lengthy pliable load-carrying members with provision for unobstructed swinging in a plane perpendicular to the axis to the conveyor, and a pivoting means connecting the linking means to the frame is located substantially not below a plane passing through the lengthy pliable load-carrying members.

Compl. specn. 25 pages.

Drgs. 5 sheets

CLASS : 47-C & D.

163329

Int. Cl. : C 10 b 25/00.

IMPROVED COKE OVEN DOOR FOR BY PRODUCT RECOVERY COKE OVENS.

Applicant : METALLURGICAL & ENGINEERING CONSULTANTS (INDIA) LIMITED, (A GOVT. OF INDIA UNDERTAKING) AT DORANDA, RANCHI-834002, BIHAR, INDIA.

Inventors : 1. GOPALAN NAIR VENUGOPAL, 2. POTALLI KRISHNA RAO, 3. T. R. SAMPAKUMAR, 4. ALWAR THIRUVADI.

Application No. 107/Cal/86 filed February 17, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

An improved cone oven door for by product recovery coke ovens made of fabricated steel plates to define :

- (i) a first chamber located away from the oven side and having access of air circulation thereinto;
- (ii) a second chamber disposed towards the oven side and next to the said first chamber and being filled with insulating material; and
- (iii) a third chamber disposed at the back of the said second chamber and having passage to allow escape of volatile products from the bottom to the free space of the oven;

the front edge of the door being adapted to be sealed against the door frame of the coke oven by a double knife edge sealing means, and screw latch mechanism being provided on the door frame.

Compl. specn. 15 pages.

Drgs. 2 sheets

CLASS :

163330

Int. Cl. : H 03 k 7/10.

A CONTACT DEVICE.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

Inventors : 1. ERWIN AWAKOWICZ, 2. PETER KIEINE.

Application No. 539/Cal/86 filed July 18, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A contact device comprising at least one plug receiving portion (4) which is arranged on the component side of a printed circuit board (1) and serves to receive a plug (12) inserted from the soldering side through a recess (11) in the printed circuit board (1), each plug receiving portion (4) extending through openings in the printed circuit board (1) positioned on opposing conductor paths at the rear by means of soldered connections (7, 8), characterised in that the contact device is formed by at least one U-shaped plug receiving portion (4) the free ends of the flanks (5, 6) being formed as soldering lugs (7, 8) and where furthermore between the flanks (5, 6) is arranged a plug tongue (10) which extends in the direction of the recess (11) in the printed circuit board (1).

and further characterized in that the plug tongue (10) is arranged so as to extend parallel to the flanks (5, 6) and the mutually opposed inner sides (14, 15) of the flanks (5, 6) form a guide for the plug (12).

Compl. specn. 6 pages.

Drg. 1 sheet

CLASS : 56 E.

163331

Int. Cl. : C 07 c 7/04, 9/02, F 25 J 3/02.

HYDROCARBON GAS SEPARATION.

Applicant : THE RANDALL CORPORATION OF 1400 BRITTMORE ROAD, HOUSTON TEXAS 77079, UNITED STATES OF AMERICA.

Inventor : ROBERT RAY HUEBEL.

Application No. 728/Cal/84 filed October 18, 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A process for the separation of a feed gas containing methane and ethane into a volatile residue gas containing a major portion of said methane and a relatively less volatile fraction containing a major portion of said ethane wherein methane and ethane together comprise a major portion of said feed gas and wherein said feed gas is cooled under relatively high pressure and then expanded to a relatively low pressure whereby it is further cooled and said further cooled feed stream is fractionated at said relatively low pressure in a fractionation column whereby the overhead temperature is maintained at a temperature whereby the major portion of said ethane is recovered in said volatile fraction at the bottom of said fractionation column; the improvement comprising :

- (a) providing a cooled gaseous feed stream and dividing said feed gas into first and second cooled gaseous streams;
- (b) expanding said first gaseous stream to said relatively low pressure;
- (c) further cooling said second gaseous stream at said relatively high pressure and then expanding to an intermediate pressure such that a portion of said second gaseous stream is condensed;
- (d) separating said condensed portion from the remaining gaseous portion of said second gaseous stream;
- (e) expanding said separated condensed portion of said second gaseous stream to said relatively low pressure;
- (f) further cooling said separated remaining gaseous portion of said second gaseous stream and then expanding to said relatively low pressure; and

(g) feeding said expanded first gaseous stream (b), said expanded condensed portion of said second gaseous stream (e) and said expanded remaining gaseous portion of said second gaseous stream (f) to said fractionation column at first, second and third feed points, respectively, said first feed point being the top column feed and said second and third feed point being at lower column positions.

Compl. specn 15 pags.

Drg. 1 sheet

CLASS : 50 E₂.

163332

Int. Cl. : F 25 b 1/00.

A REFRIGERATION SYSTEM WITH MEANS FOR IER PARKWAY, P. O. BOX 4800, SYRACUSE, NEW VALVE.

Applicant : CARRIER CORPORATION AT 6304 CARRIER PARKWAY, P. O. BOX 4800, SYRACUSE, NEW YORK 13221, UNITED STATES OF AMERICA.

Inventor : RICHARD GARY LORD.

Application No. 840/Cal/84 filed December 5, 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A refrigeration system comprising :

- (A) A condenser for condensing refrigerant vapor;
- (B) an avaporator for evaporating liquid refrigerant to provide cooling;
- (C) compression means for compressing refrigerant vapor formed in the evaporator and for passing the compressed refrigerant vapor to the condenser;
- (D) an adjustable refrigerant expansion valve for controlling the passage of refrigerant from the condenser to the evaporator;
- (E) control signal generating means for generating a valve control signal which is a function of both the superheat of refrigerant passing from the evaporator to the compression means and a function of the rate of change of the superheat of refrigerant passing from the evaporator to the compression means; and
- (F) valve control means for adjusting the refrigerant expansion valve in response to the generated valve signal.

Compl. specn. 18 pages.

Drgs. 2 sheets

CLASS : 69 A.

163333

Int. Cl. : H 01 h 3/00.

A MULTIPLE POLE CIRCUIT BREAKER ARRANGEMENT.

Applicant : WESTINGHOUSE ELECTIC CORPORATION OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : JOHN FRANCIS COTTON.

Application No. 25/Cal/85 filed January 15, 1985.
4—237 GI/88

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A multiple pole circuit breaker arrangement comprising first and second multiple pole circuit breakers, an operating pivot pin on each circuit breaker, predetermined movement of which results in the simultaneous operation of the associated poles between their open and closed positions, first means pivotally linking the operating pivot pins of said first and second circuit breakers to a first common pivot pin, with said first common pivot pins being fixed, second means pivotally linking the operating pivot pins of said first and second breakers to a second common pivot pin, third means mounting said second common pivot pin for movement in a predetermined guided rectilinear path while restraining it against lateral movement, said guided rectilinear movement directing the axis of the second common pivot pin in a plane which includes the axis of said first common pivot pin, and fourth means for operating said second common pivot pin in its guided rectilinear path with such movement causing simultaneous movement of the operating pivot pins of the first and second circuit breakers in a path about the axis so said first common pivot pin.

Compl. specn. 14 pages.

Drgs. 3 sheets

CLASS : 83 A.

163334

Int. Cl. : A 21 D 2/00.

A PROCESS FOR PREPARING A COOKIE DOUGH FOR PRODUCING REDUCED CALORIE COOKIES.

Applicant : NABISCO BRAND INC. AT NABISCO BRANDS PLAZA, PARSIPPANY, NEW JERSEY 07054, UNITED STATES OF AMERICA.

Inventors : 1. CLEMENCE KUMAH DARTEY 2. RICHARD HENRY BIGGS.

Application No. 171/Cal/85 filed March 6, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

26 Claims

A process for preparing a cookie dough for producing reduced calorie cookies having a pH of 6.8 to 9.0, which process comprises admixing :

- a. from 10% by weight to 30% by weight flour,
- b. from 0% by weight to 15% by weight shortening of fat,
- c. from 5% by weight of 20% by weight of at least one sugar,
- d. from 5 % by weight to 20% by weight of a water-soluble polydextrose such as herein described,
- e. from 0% by weight to 10% by weight of at least one emulsifier such as herein described,
- f. from 0.5% by weight to 3% by weight of a leavening system, the leavening system comprising (1) at least one bicarbonate and/or carbonate salt, and (2) an amount of at least one acidifier sufficient to release at least 50% of the leavening gas from the bicarbonate and/or carbonate salt during baking, and
- g. from 4% by weight to 15% by weight of a cellulosic bulking agent such as herein described,

the percentages being based upon the weight of the cooking dough the total amount of the shortening or fat (b) and the at least one emulsifier (e) being from 6% by weight to 15% by weight of the dough.

Compl. specn. 79 pages.

Drg. Nil

CLASS : 33 A.

163335

Int. Cl. : B 22 D 11/00.

CONTINUOUS CASTING OF INGOTS.

Applicant : KABEL-UND METALLWERKE GUTEHOFENUNGSHUTTE AG. OF KLOSTERSTRASSE 29, 4500 OSNABRUCK, WEST GERMANY.

Inventors : 1. HELMUT BESTGEN, 2. WOLFGANG HORNSCHEMEYER, 3. MANFRID MOIK, 4. FRIEDRICH TUSCHY.

Application No 243/Cal/85 filed April 2, 1985.

Complete specification left on 12th February, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

A method for producing an improved continuous casting mould for continuous casting equipment, the mould being of a non-rectangular non-circular cross-section, wherein a piece of tubing or mould, of copper or a copper alloy, is shaped on a mandrel having a configuration corresponding with the internal final configuration of the mould of non-rectangular non-circular cross-section which is to be produced the piece or tubing or mould being pressed by the action of external force on to the mandrel, and latter subsequently being removed from the piece of tubing or mould.

Compl. specn. 26 pages.

Drg. 1 sheet

CLASS : 69 F.

163336

Int. Cl. : H 01 h 1/00.

MICROSWITCH.

Applicant : VSESOJUZNY NAUCHNO-ISSLEDOVATELSKY. PROEKTNO-KONSTRUKTORSKY I TEKHOLOGICHESKY INSTITUT VZRYVOZASCHISCHENNOGO I RUDNICHNOGO ELEKTROOBORUDOVANIA OF DONETSK UITSIA 50-of GVARDFISKOI DIVIZII, 17, USSR.

Inventors : 1. VYACHESLAV GEORGIEVICH MIRO-NENKO, 2. ALEXANDER PAVLOVICH POLTORAK, 3. VITAIY IVANOVICH SCHUTSKY, 4. VLADIMIR ALEXANDROVICH KOSOVITSEV, 5. FEDOR PETROVICH CHALY, 6. VIADISLAV FEDOROVICH ZAGUBELIUK, 7. NIKOLAI IVANOVICH FILATOV.

Application No 299/Cal/85 filed April 18, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A microswitch comprising a base, fixed contacts secured on the base, a drive lever connected to the base for angular swiveling, movable contacts affixed to a free end of the contact lever, a mechanism for switching the movable contacts in the form of a spring and intermediate lever connected by ends thereof to each other and to the end of the contact lever on which the movable contacts are secured to be capable of moving in a direction perpendicular to the contact lever; the other end of one of the elements of the mechanism for switching the movable contacts being connected to the contact lever between the point of connection of the contact lever to the drive lever and the movable contact; the other end of the other element of the mechanism for switching the movable contact being secured on the base on the area between vertical planes passing through the point of connection of the other end of one of the elements of the mechanism for switching the movable contact to the contact lever and through the movable contact.

Compl. specn. 15 pages

Drgs. 4 sheets

CLASS 80 E

163337

Int Cl B 01 d 25/00

AN APPARATUS FOR SEPARATING SUSPENDED OR EMULSIFIED MATTERS IN LIQUIDS

Applicant AXEL JOHNSON ENGINEERING AB OF BOX 1004 149 01-NYNASHAMN, SWEDEN

Inventors 1 HANS FOLKE LARSSON, 2 SVEN HAKENSSON

Application No 333/Cal/85 filed May 1, 1985

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

5 Claims

An apparatus for separating suspended or emulsified matters in liquids comprising a plurality of spaced-apart parallel plates inclined to the horizontal and forming a plurality of separation passages therebetween, influent distributor means adapted to receive a flow of influent liquid and in communication with said separation passages for distributing said influent liquid uniformly thereto in a direction transverse to the influent flow direction for treatment, and discharge means for a clarified liquid obtained by the separation in said passages, wherein a plurality of spaced-apart obstacle are disposed in at least one array in said distributor means so as to dissipate the kinetic energy thereof and distribute the influent composite liquid uniformly to the plurality of separation passages and a plurality of throttling means for the clarified liquid from said passages to provide a uniform flow through all passages

Compl Specn 11 pages

Drgs 2 sheets

CLASS 83 A,

163338

Int Cl A 23 l 1/02, A 23 n 1/00, 15/00, 17/00

PROCESS AND APPARATUS FOR THE TREATMENT OF PLANT OR OTHER MATERIAL

Applicant PHAROS INVENTIONS AG OF DORFSTRASSE 19, ZUG, SWITZERLAND

Inventor DR HANS WIFDERKEHR

Application No 500/Cal/85 filed July 4, 1985

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta

14 Claims

A process for the treatment of plant and other material such as herein described, for obtaining a liquid phase and a solid phase therefrom after pretreatment by pressing, said phases being further processed separately, by the steps of successively subjecting the material being pressed to two or more separate independent treatment stages in individual, closed pressing zones, which are arranged in-series and interconnected by connecting zones whereby the treatment conditions in the said individual pressing zones are capable of being set independently of one another, according to requirement

Compl specn 15 pages

Drgs 2 sheets

CLASS : 160 A.

163339

Int. Cl. : B 62 d 39/00,

A CAR BODY.

Applicant : HEINRICH HUSS, OF LIEBIGSTER 1, D-6054 RODGAU 6, WEST GERMANY.

Inventor : HEINRICH HUSS.

Application No. 876/Cal/85 filed December 5, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A car body more especially for an electric vehicle having wheels which are selectively drivable characterised in that it is an integrated metal and plastics material component which includes a shell-like body (C) formed from a highly impact-resistant plastics material and provided with an integrated metal chassis (34, 35) such a body (C) being suitable for the mounting thereon of interchangeable attachment assemblies and in that the body (C) has a continuous closed base (30') apart from an opening in its front region the metal chassis having a means whereby the body (C) is securable to a controllable front wheel arrangement.

Compl. specn. 18 pages.

Drgs. 3 sheets

CLASS : 116 G.

163340

Int. Cl. : B 65 G 47/00.

LOCK FOR THE TRANSPORT OF BULK MATERIAL.

Applicant : VOEST-ALPINE AKTIENGESELLSCHAFT OF A-4020 LINZ, MULDENSTRASSE 5, AUSTRIA.

Inventor : MANFRED KLAMBAUER.

Application No. 414/Cal/86 filed June 4, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

Lock for the transport of bulk material between chambers being under different pressure with a preferably horizontal guide tube, which comprises on different sides of its wall a first opening leading to the chamber with lower pressure and in an axial distance therefrom a second opening leading to the chamber with higher pressure, and with slides being tightly guided in the guide tube, characterized in that a lock chamber (4) is guided tightly and driven by a reciprocal movement in the guide tube (2) which chamber comprises openings (13, 14) which can be brought in coincidence with the first and the second opening (12, 15) of the guide tube at the points of reversal of the reciprocal movement, that in axial direction adjacent to the lock chamber (4) are arranged slides (3a) being tightly guided in the guide tube (2), which slides over the openings (12, 15) of the guide tube (2), and that at the end of the guide tube (2) being opposite of the first opening (12) a piston (20) is guided tightly in the guide tube (2) and is driven to moving in opposite direction to the lock chamber (4).

Compl. specn. 18 pages.

Drgs. 3 sheets

CLASS :

163341

Int. Cl. : B 65 B 35/46.

A SYSTEM FOR HANDLING CONICAL THREAD PACKAGES.

Applicant : RIETER MACHINE WORKS LTD., A BODY CORPORATE ORGANIZED UNDER THE LAWS OF SWITZERLAND, OF CH-8406, WINTERTHUR, SWITZERLAND.

Inventors : (1) ALFRED CARL, (2) ANDRE LATIION, (3) REINHARD OEHLER.

Application No. 833/Mas/84 filed November 5, 1984.

Convention date December 2, 1983. (No. 8332252 United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

12 Claims

A system for handling conical thread packages, comprising main conveyor means for conveying the said package in a predetermined direction in a conveying path such that each package arrives at the downstream end of said main conveyor means with an arbitrary one of said opposite orientations, auxiliary conveyor means provided at said downstream end for receiving the package in succession from said main conveyor means; means for sensing the orientation of the packages at the juncture of said main and auxiliary conveyor means, means for manipulating only any such package whose orientation at said juncture as sensed by said sensing means is opposite to a desired orientation which such package is to assume on said auxiliary conveyor means downstream of said manipulating means to give such package such desired orientation which is predetermined for the respective package and different for different package, said manipulating means having a pair of package engaging members at least one of which has at least a portion arranged to adopt respective disposition in dependence on the orientation of the package engaged by said manipulating means with respect to the arrangement and said sensing means being operative for sensing the disposition of said portion and selectively operable means for displacing said package-engaging members in engagement with the package for changing the orientation of the package if required to achieve said desired orientation.

Compl. specn. 42 pages.

Drgs. 6 sheets

CLASS :

163342

Int. Cl. : F 04 C 2/02, 18/02.

SCROLL TYPE FLUID DISPLACEMENT APPARATUS INCLUDING A PAIR OF SCROLLS.

Applicant : SANDEN CORPORATION OF 20, KOTOBUKI-CHO ISHISAKI-SHI GUNMA-KEN JAPAN, AJAPANESE COMPANY.

Inventor : KIYOSHI TERAUCHI.

Application No. 872/Mas/84 filed 14 November, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

5 Claims

A scroll type fluid displacement apparatus including a pair of scrolls each having a circular end plate from which a spiral wrap extends, said spiral wraps interfitting at an angular and radial offset to form a plurality of line contacts

to define at least one pair of sealed off fluid pockets, driving means operatively connected to one of said scroll to effect orbital motion thereof, a rotation preventing means for preventing the rotation of said one scroll during the orbital motion, thereby to change the volume of the fluid pockets, wherein the spiral length of the spiral wrap of one of said scrolls is longer than the spiral length of the spiral wrap of the other scroll so that the gas pressure distribution within said sealed-off fluid pockets is asymmetrical with reference to the center of the interfitted scrolls, thereby to increase the moment of rotation of the orbitings scroll.

Compl. sepcn. 14 pages.

Drgs. 4 sheets

CLASS :

163343

Int. Cl.⁴ : E 21 B. 43/08, 43/10.

AN APPARATUS FOR EXTRACTING FLUIDS FROM GEOLOGICAL FORMATIONS.

Applicant : INSTITUT FARNCAIS DU PETROLE, OF 4, AVENUE DE BOIS-PREAU, 92502 RUEIL-MALMAISON, FRANCE.

Inventor : JEAN COMBE.

Application No. 879/Mas/84, filed November 16, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

An apparatus for extracting fluids from geological formation comprising at least one plug, or screen between two fluids in said geological formations and at least one horizontal drain, wherein said drain is disposed substantially horizontally in the vicinity of the interface formed by said two fluids, wherein a product intended to form said plug, such as a gas miscible with a liquid or a surface active solution is injected into the formation through said drain, said product intended to form said plug having a density between those of said two fluids.

Compl. specn. 10 pages.

Drgs. 2 sheets

CLASS :

163344

Int. Cl.⁴ : F 16 D 25/11.

HYDRAULIC FLUID PRESSURE SUPPLYING MASTER CYLINDER INCORPORATING AN INTERNAL RESERVOIR

Applicant : LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM 19, ENGLAND.

Inventor : DENNIS J. KOMATZ.

Application No. 898/Mas/84 filed November 21, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

7 Claims

A hydraulic fluid pressure supplying master cylinder adapted to provide a hydraulic fluid pressure signal responsive to an external force load which pressure is applied to a hydraulic circuit wherein the capacity of said hydraulic circuit for hydraulic fluid is variable, said

master cylinder comprising; a housing having an internal cylindrical bore with a first open end and a second closed end, said closed end having a vent port, said bore being divided into two sections, a first section of the bore adjacent said first open end forming a working chamber and a second section adjacent said closed end forming a reservoir cavity; the diameter of said first section of the bore being larger than the diameter of said second section of the bore thereby forming an annular shoulder therebetween; said working chamber being separated from said reservoir cavity by plug means slidably disposed within said first section of the bore and abutting said annular shoulder; first plunger means slidably disposed within said first section of the bore; said working chamber volume changing as said first plunger is caused to slide within said first section of the bore, said working chamber volume communicating with said hydraulic circuit via an outlet port; first spring means biasing said first plunger means towards said first open end, a second plunger means slidably disposed within said second section of the bore; second spring means biasing said second plunger away from said closed end; and check valve means communicating said working chamber with said reservoir when said external force load is removed and isolating said working chamber and said reservoir when said external force load is applied whereby said reservoir functions to accept or provide said hydraulic fluid to said working chamber as the capacity of said hydraulic circuit changes.

Compl. Specn. 13 pages.

Drg. 1 sheet.

CLASS :

163345

Int. Cl.⁴ : G 01 V 1/28; 1/32.

A SYSTEM FOR PROCESSING GEOPHYSICAL DATA.

Applicant : CONOCO INC., OF P. O. BOX 1267, PONCA CITY, OKLAHOMA 74601, UNITED STATES OF AMERICA, A CORPORATION OF DELAWARE, UNITED STATES OF AMERICA.

Inventor : GEORGE WESLEY RICE.

Application No. 924/Mas/84 filed November 27, 1984.

Divisional to Patent No. 156005 Ante-dated to January 4, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

3 Claims

A system for processing geophysical data of two-coordinate character utilizing a programmed digital computer and an image processor to enable enhancement of interpretation comprising :

means for storing plural records of said geophysical data that are each indicative of a selected parametric attribute of said data;

means for rasterizing each of said stored records into a two dimensional grid wherein individual record indications are represented by a characteristic number of grid units within a selected grid scale and color level within a selected intensity range; and

means for storing each of said two-dimensional grids;

whereby each of said rasterized records may be inter-actively reproduced in a different color and placed in grid unit registration as a plural color overlay reproduction.

Compl. Specn. 25 pages.

Drgs. 14 sheets.

CLASS : 163346

Int. Cl.⁴ : B 01 J 19/08.

A DEVICE FOR TREATING SUBSTANCES, PARTICULARLY FOR OBTAINING INDIVIDUAL PHASES FROM DISPERSED SYSTEMS.

Applicant & Inventor : HETNZ DOEVEN SPECK, A GERMAN CITIZEN, OF SIGURDSTR, 1, D-4950 MINDEN, WEST GERMANY.

Application No. 938/Mas/84 filed 30 November, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

9 Claims

A device for treating substances, particularly for obtaining individual phases from dispersed systems, for destroying bacteria or for growing molecular chains of organic and inorganic substances, comprising at least one treatment chamber having an inlet and an outlet through which the substances are moved, at least one pair of electrodes arranged in the treatment chamber, each pair of electrodes forming a discharge path, at least one capacitor associated with each pair of electrodes, controllable switches for charging and discharging the capacitors.

Compl. specn. 17 pages.

Drgs. 2 sheets

CLASS : 163947

Int. Cl.⁴ : F 16 L 59/00.

IMPROVED PIPE BUILDING THERMALLY INSULATED CONDUITS, AND PROCESS FOR SAID BUILDING.

Applicant : SNAMPROGETTI S.P.A., A COMPANY ORGANISED UNDER THE LAWS OF THE ITALIAN REPUBLIC, OF CORSO VENEZIA 16 MILAN, ITALY.

Inventors : (1) ALFREDO BERTI, (2) ROBERTO BRUSCHI, (3) BRALDO RAFFAELI AND (4) LUIGI GAMBELLI.

Application No. 943/Mas/84 filed 3 December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

6 Claims

A pipe segment for building a thermally insulated conduit comprising :

(a) a first section consisting of two concentrically disposed pipes of different diameter, the inner pipe having a first diameter and the outer pipe having second diameter which is larger than the first diameter, said inner and outer pipes defining therebetween an annular gap;

(b) a second section consisting of a horizontally Y-shaped joint member having two free ends, an intermediate cone frustum, and a single end, wherein cylindrical, concentrically disposed inner and outer walls, having a first and second diameter, respectively corresponding to the first and second diameter of the inner and outer pipes of said first section, extend from said split end through said intermediate cone frustum section, wherein the diameter of said outer wall reduces as it extends away from said split end, forming a cone frustum shaped ring, until said inner and outer walls join adjacent to said single end, defining between said inner and outer walls a V-shaped cavity, said single end defining a single cylindrical wall having the same diameter as said inner walls; and

(c) a third section identical to said second section; wherein the outer wall of the split end of said second section is welded to one end of said outer pipe and the inner wall of the split end of said second section is welded to one end of said inner pipe, and wherein the single end of said second section is welded to the single end of said third section.

Compl. Specn. 13 pages.

Drg. 1 sheet.

CLASS : 163348

Int. Cl.⁴ : B 02 C 2/04.

A WET GRINDER.

Applicant & Inventor : ANPUMONY BAYLIS, 7/255 ALWAR NAGAR, NAGAMALAI, MADURAI-625 019, TAMIL NADU, INDIA, INDIAN NATIONAL.

Application No. 1018/Mas/84 filed 20 December 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

5 Claims

A wet grinder comprising a rotatably mounted base stone housed within a casing, the base stone being driven by a prime mover and having a cavity for receiving the material to be grouped as well as a shafted grinding stone therein; an arched member surmounting the casing, the said member being hinged at one end thereof to a first support and being attachable at its other end to a second support, a spring-loaded socket movably located in a slot in the arched member, the socket receiving the shaft of the grinding stone to exert a resilient lateral pull on the grinding stone, whereby during rotation of the base stone, the grinding stone exerts a resilient lateral pressure on the said material in the cavity between the grinding stone and the wall of the cavity.

Compl. Specn. 7 pages.

Drg. 1 sheet.

CLASS : 163349

Int. Cl.⁴ : C 07 C 67/39; 69/82.

PROCESS FOR THE PRODUCTION OF TEREPHTHALIC ACID DIMETHYL ESTER FROM p-XYLENE AND METHANOL.

Applicant : DYNAMIT NOBEL AKTIENGESSELLSCHAFT, A COMPANY ORGANISED UNDER THE REPUBLIC OF GERMANY, OF POSTFACH 1261 521 TROISDORF, WEST GERMANY.

Inventors : (1) DR. RUDOLF MODIC, (2) JORG PORSCHEN, (3) ANTON SCHOENGEL, (4) RALF WIRGES.

Application No. 1038/Mas/84 filed December 27, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

5 Claims

A process for the production of dimethyl terephthalate from p-xylene and methanol in a reactor by oxidation of a mixture of p-xylene and a fraction containing predominantly methyl p-toluate in the liquid phase with atmospheric oxygen in the presence of dissolved heavy metal compounds as a catalyst to obtain an oxidation product containing primarily p-toluic acid and mono-

methyl terephthalate, at a temperature of 140–170°C, and under a pressure of 4–8 bar; esterifying the oxidation product at a temperature of 220–280°C and a pressure of 20–30 bar with methanol in vapour form, to form primarily p-toluic acid and dimethyl terephthalate raw ester fraction; withdrawing the raw ester fraction and a methanol-containing vapour fraction from the esterification stage; and separating by distillation the raw ester fraction into a p-toluic acid fraction which is recycled into the oxidation reactor, the raw dimethyl terephthalate fraction is subjected to recrystallization in methanol, and the residual fraction obtained is subjected to a thermal after-treatment or a reactive treatment with methanol and is partially recycled into the process after a subsequent working-up step by distillation, characterised in that the esterification of the oxidation product is conducted with compressed methanol-containing vapour at a compression ratio of 1, 2 : 1 to 15 : 1, preferably 3 : 1 to 9 : 1, the temperature of the compressed methanol-containing vapour being at 150 to 300°C, preferably 220 to 280°C, the said methanol-containing vapour being obtained from the filtrate of the recrystallization of the raw dimethyl terephthalate fraction by vaporization and/or by rectification of the methanol-containing vapour fraction and/or adding methanol-containing process streams, at a pressure of 2 to 20 bar, preferably 4 to 8 bar.

The compound prepared according to this invention is used in the preparation of polyester.

Compl. Specn. 11 pages.

Drgs. 2 sheets.

CLASS : 163350

Int. Cl.⁴ : C 07 C 51/09; 63/26.

PROCESS FOR THE PRODUCTION OF TEREPHTHALIC ACID VIA TEREPHTHALIC ACID DIMETHYL ESTER FORMED FROM P-XYLENE AND METHANOL.

Applicant : DYNAMIT NOBEL AKTIENGESSELLSCHAFT, A COMPANY ORGANISED UNDER THE REPUBLIC OF GERMANY, OF POSTFACH 1261, 521 TROISDORF, WEST GERMANY.

Inventors : (1) DR. RUDOLF MODIC, (2) JORG PORSCHEN, (3) ANTON SCHOENGEL, (4) RALF WIRGES.

Application No. 1039/Mas/84 filed December 27, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

5 Claims

Process for the production of terephthalic acid (TPA) via terephthalic acid dimethyl ester (DMT) produced from p-xylene (p-X) and methanol by oxidation of a mixture of p-x and a fraction containing pre-dominantly p-toluic acid methyl ester (p-TE) led back to the oxidation in the liquid phase with atmospheric oxygen in the presence of dissolved heavy metal compounds as catalyst to form a primarily para-toluic acid (p-TA) and terephthalic acid monomethyl ester (MMT) containing oxidation product at a temperature of 140 to 170°C and a pressure of 4 to 8 bar, esterification of the oxidation product at a temperature of 220 to 280°C and a pressure of 20 to 30 bar with liquid methanol brought to elevated pressure and then evaporated, to form a chiefly p-TE and DMT containing crude ester, withdrawal of the crude ester fraction and a methanol-containing vapour fraction from the esterification, distillative separation of the crude ester into a p-TE fraction and a terephthalaldehyde acid methyl ester-rich fraction which are led back to the oxidation, a crude DMT fraction and a residual fraction, hydrolysis of the crude DMT fraction with water, recovery of the TPA which is present and separation off of a methanol-water mixture, characterised in that the methanol-containing vapour fraction and the methanol-water mixture are stripped by rectification

under a pressure of 2 to 20 bar and at a correspondingly temperature of 80 to 165°C at the head and 120 to 215°C at the bottom of the rectification column into a methanol-rich head fraction and an aqueous sump fraction, the methanol occurring at the head in the rectification is removed in the form of vapour at a pressure of 2 to 20, preferably 4 to 8, bar and the esterification of the oxidation product is carried out with the methanol-containing vapour brought by compression to esterification pressure of 20 to 30 bar, with a compression ratio of the methanol-containing vapour of 1, 2 : 1 to 15 : 1, preferably 3 : 1 to 9 : 1, and the end temperature reached during compression, at the outlet of the compressor, being 150 to 300°C, preferably 220 to 280°C.

Compl. Specn. 20 pages.

Drgs. 3 sheets.

CLASS : 67-C.

163351

Int. Cl. G 05 b 11/00.

APPARATUS FOR THE CONTINUOUS MANUFACTURE OF DIFFERING MINERAL FIBRE PRODUCTS.

Applicant : ISOVER SAINT-GORAIN, "LES MIROIRS", 18 AVENUE D'ALSACE 92400 COURBEVOIE, FRANCE.

Inventors : 1. HANS GARTNER, 2. FRIEDRICH KAUFMANN, 3. HORST WERNER SCHLOSSNER.

Application No. 726/Cal/84 filed October, 18, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

An apparatus for the continuous manufacture of differing mineral fibre products, comprising a plurality of control elements provided on apparatus of the product, characterised by :

means for manually adjusting the parameters on reference value adjusting devices each of which being adapted to generate electric control signal and apply same to the control elements.

a fixed memory means for string therein said electric control signals as reference values under a common address corresponding to a particular product to be manufactured.

means for manually adjusting the parameters on reference to control elements as control signals.

manual correcting devices for instantaneously modifying the control signals within a pre-established range without modifying the stored reference values.

Compl. Specn. 16 Pages.

Drg. 1 sheet.

CLASS. 206-F & I.

153352

Int. Cl. H 04 b 9/00.

A DIGITAL RADIO RELAY EQUIPMENT HAVING A FUNCTION FOR MANIPULATING AUXILIARY.

Applicant : FUJITSU LIMITED, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF JAPAN.

Inventors : 1. SUSUMU SASAKI.

Application No. 780/Cal/84 filed November 13, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A digital radio relay equipment comprising :

a digital radio units having;

a means for receiving time-division multiplexed (TDM) main and auxiliary signals sent from a precedent station and separating said auxiliary signal; and

a means for transmitting said main signal and newly generated auxiliary signal to a subsequent station under time-division multiplex mode; and

an auxiliary unit for generating a new auxiliary signal based on said auxiliary signal which is sent from the precedent station and is separated in said digital radio unit and an auxiliary signal locally provided thereto;

wherein, in case of said auxiliary unit is failed, said auxiliary signal as sent from the precedent station alone is multiplexed with said main signal and transmitted to the subsequent station.

Comp. Specn. 18 Pages.

Drg. 2 Sheets

CLASS 45-D.

163353

Int. Cl. B 65 h 17/00.

AUTOMATIC DEVICE FOR REMOVING CURL FROM A WEB OF PAPER MATERIAL.

Application : BELOIT CORPORATION OF P.O. BOX 350, BELOIT, WISCONSIN 53511, UNITED STATE OF AMERICA.

Inventors : 1. KENNETH GORDON FRYE. 2. ARTHUR THEODORE KARIS.

Application No. 8/Cal/85 filed January, 02, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

An automatic device for removing curl from a web of paper material comprising :

a first roll mounted on an axle for carrying the web of paper, the web wrapping around said first roll with a first side engaging said roll.

a second roll mounted on an axle downstream of said first roll for carrying the web of paper, the web drapping around said second roll with a second side engaging said second roll.

a first decurling bar carried in a mounting block.

a first pivot arm carrying said mounting block at one end, said pivot arm being pivotally connected intermediate its ends to said first roll axle.

a link, member pivotally connected to an end of said pivot arm opposite the end carrying said mounting block,

means for adjusting the position of said link member to effect pivotal movement of said first pivot arm permitting selective adjustment of said first decurling bar into one of said sides of the paper in a portion of the web between said two rolls.

a second decurling bar carried in a mounting block,

a second pivot arm carrying said mounting block at one end, said pivot arm being pivotally connected intermediate its ends to said second roll axle,

a link member pivotally connected to end of said second pivot arm opposite the end carrying said mounting block.

means for adjusting the position of said link member to effect pivotal movement of said second pivot arm permitting independent selective adjustment of said second decurling bar into a side of the web opposite the side engaged by the first decurling bar.

Whereby, said first and second decurling bars can be adjusted independently and simultaneously into opposite sides of the web between said two rolls.

Comp. Specn. 12 pages.

Drg. 1 sheet.

CLASS : 201-B.

163354

Int. Cl. : E03b 3/00; F24h 1/00.

A UNITARY PACKAGE FOR TREATMENT OF WATER.

Applicant & Inventors : MIGUEL FAVA BRIGANTE, OF ELECTRO-MAG (INDIA) PVT. LTD., 23/24, RADHA BAZAR STREET, CALCUTTA-700 001, WEST BENGAL, INDIA.

Application No. 142/Cal/85 filed February 26, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A unitary package for treatment of water adapted to be attached to a home hot water heater and which is disposed between the municipal water line and the water inlet to the heater comprising :

a package casing having a top, a bottom and sides therebetween enclosing electrical conversion AC to DC machinery and an electromagnetic assembly about a straight pipe section in the package adapted by a spiral band and surrounding coil for water treatment inside the casing;

an upper compartment immediately below the top of said casing in which is mounted a step-down transformer converting 110—220 volts to 24 volts AC, a plug and lead from AC house current to 110—220 volts AC into said transformer, and a DC rectifier converting said 24 volt input into a DC output for energizing a coil in a lower compartment of the package and a monitoring light indicating rectifier current;

a lower compartment containing a straight pipe section between the casing sides which projects from the sides and thus forms a straight line for direct connection between the municipal water line and the inlet line to the hot water heater;

a horizontal wall provided with openings separating said upper and lower compartments and electrical lead lines passing through said openings between the rectifier in the upper compartment and the coil in the lower compartment;

said straight pipe section being surrounded by a magnetic wire winding consisting of aluminium wire which is insulated and extends along substantially the entire length of said section within the package, said coil fed by the electrical lead lines passing through said openings to thereby create a 24 volt DC magnetic field within the interior of said pipe section through which the water flows;

a tapered sleeve adapter fitting into said straight pipe section within said package; and

an elongated impeller journaled in bearings in a spider and formed as a helical screw or a spiral band having 24 turns and spaced at 1/16 inch from the inside wall of the pipe section which rotates responsive to incoming municipal water flow, said spider being locked at the narrow tapered portion of said adapter to immobilize the impeller center to water inflow, and the projecting ends of said pipe section adapting the coupling of said pipe section in said unitary package to municipal water and the heater.

Compl. Specn. 14 pages.

Drg. 2 sheets.

CLASS : 171.

163355

Int. Cl. A61b 3/00.

DEVICE FOR PROCESSING ELECTRO-OCULLOGRAPHIC SIGNALS.

Applicant : MOSKOVSKY NAUCHNO-ISSLEDOVATELSKY INSTITUT MIKROKHIRURGII GLAZA, OF BESKUNDNIKOVSKY BULVAR, 59A, MOSCOW, USSR.

Inventors : 1. PAVEL AFRIKANOVICH SEMENOV, 2. SVYATOSLAV NIKOLAEVICH FEDOROV, 3. EMILIA MIKHAILOVNA MIRONOVA, 4. ELEONORA VALENTINOVNA EGOROVA.

Application No. 261/Cal/85 filed April 4, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A device for processing electro-oculographic signals, comprising an EOG signal sensor, an amplifier-multiplexer, a low-pass filter, a high-pass filter and an analog-to-digital converter, all of said units being interconnected in series, as well as a visual stimulator, a calibrator whose output is connected to a second input of the amplifier-multiplexer, and a data display unit, which is also provided with series-connected a steady-state interference detection unit, a steady-state interference suppressing unit, a multiplier, an adder-accumulator, a double-output digital comparator, a time interval selector, a memory unit, a double-output digital discriminator, and a control unit, as well as a stimulation time determination unit whose output is connected to a second input of the time interval selector, a triple-output extrema determination unit, one of the outputs of said unit being connected to a second input of the memory unit, a second output is connected to a third input of the time interval selector, and the input is connected to the output of the steady-state interference suppressing unit, a first function generator whose first input is connected to a third output of the extrema determination unit, while the output is connected to a second input of the digital comparator, a second function generator whose output is connected to second input of the multiplier, a classification unit having two outputs, one of which is connected to second input of the steady-state interference suppressing unit and to a second input of the control unit, while a second output is connected to a second input of the first function generator, said control unit having a plurality of outputs connected respectively to the additional inputs of the calibrator, the amplifier-multiplexer, the analog-to-digital converter, the steady-state interference detection unit, the steady-state interference suppressing unit, the stimulation period determination unit, the extrema determination unit, the second function generator, the adder-accumulator, the digital comparator, the time interval selector, the memory unit, the data display unit and the visual stimulator; in addition, the output of the analog-to-digital converter is connected to the input of the steady-state interference detection unit and to the second input of the steady-state interference suppressing unit, the second output of the digital comparator is connected to the second input of the extrema determination unit, and the output of the steady-state interference detection unit is connected to the second input of the data display unit and to the third input of the control unit, while the second output of the digital discriminator is connected to the third input of the data display unit.

Compl. Specn. 35 pages.

Drg. 10 pages.

Class : 145-D.

163356

Int. Cl. B31f 7/00.

APPARATUS FOR THE MANUFACTURE OF PAPER PULP

Applicant : BELOIT CORPORATION, OF P.O. BOX 350 BELOIT, WISCONSIN 53511, UNITED STATES OF AMERICA.

Inventor : 1. JOHN M. ELLERY.

Application No. 697/Cal/85 filed October 3, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

Apparatus for the manufacture of paper pulp comprising :

first means operable to produce a first signal representing the available power of the main motor, a second signal representing the maximum speed of the auxiliary motor and a third signal representing the quotient of the first and second signals;

second means connected to the main motor and operable to produce a fourth signal representing actual main motor power;

third means connected to said first and second means and operable in response to the third and fourth signals to produce a fifth signal representing the quotient of the fourth and third signals;

fourth means connected to said first and third means and operable in response to the second and fifth signals to produce a sixth signal representing a subtraction of the fifth signal from the second signal; and

fifth means connected between said fourth means and the auxiliary motor in accordance with the magnitude of the sixth signal.

Compl. Specn. 15 pages.

Drg. 2 sheets.

CLASS : 69-Q, P & O.

163357

Int. Cl. H 01 h 1/00 & 21/00.

MULTIPOINT CONNECTOR.

Applicant : PREH, ELEKTROFEINMECHANISCHE WERKE, JAKOB PREH, NACHF. GMBH & CO., OF SCHWEINFURTER STRASSE 5, D-8740 BAD NEUSTADT, WEST GERMANY.

Inventor : 1. OSWALD REUSS.

Application No. 835/Cal/85 filed November 26, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

Multipoint connector comprising a housing with a first and a second half-shell of plastics material, between which a support for contact element is held which support is made from an insulating material, the support comprising chambers into which contact elements being connected with the conductors of a multi-core cable are inserted, with the chambers being arranged staggered in two rows,

characterized in that the contact element comprises a first and a second support element with the first support element being integrally formed with the first housing half-shell and the second support element being integrally formed with the second housing half-shell, that the separating surface between the two support elements is arranged such that all chambers of the two rows are located in the first support element and that at each chamber of both rows a plug-in opening for inserting the contact element from the separating surface remains open, wherein all plug-in openings may be closed by the second support element serving as lid.

Compl. Specn. 8 pages

Drg. 2 sheets

CLASS : 23-H.

163358

Int. Cl. A 47 f 1/00.

CONTAINER HAVING FLUID TIGHT SEAL

Applicant : REVLOX, INC., AT 767 FIFTH AVENUE, CITY AND STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventor : 1. ROBERT J. SHEFFLER.

Application No. 17/Cal/86 filed January 8, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A container for storing and dispensing product which comprises :

(a) a base member (2) provided with a chamber (4) for storing product;

(bb) a cover member (1); and,

(c) a laterally compressible sealing means disposed between a downwardly projecting rigid element (10) associated with or forming part of the cover member (1) and an upwardly projecting rigid element associated with or forming part of the base member (2) or chamber (4), the sealing means extending continuously about the chamber such that when the base member is in closing engagement with the cover member, the downwardly and upwardly projecting rigid elements cooperate to subject the sealing means disposed therebetween to a substantially fluid-tight lateral compression.

Compl. Specn. 13 pages.

Drg. 2 sheets

CLASS : 63-B & I.

163359

Int. Cl. : H 02 k 3/00.

METHOD OF PRODUCING MOLDED WINDING

Applicant : HITACHI, LTD., OF 6, KANDA SURUGA-DAL 4-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventor : 1 TSUNEHICO NAGAYA.

Application No. 230/Cal/86 filed March 20, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A method of producing a molded winding in which a conductor and at least one insulator are alternately wound on a cylindrical winding barrel in predetermined number of layers, and a thermosetting resin is injected into the layers

of the conductor and insulator and is thermally set by heating thus forming a rigid molded winding, characterized in that said method includes the steps of :

(a) preparing a universal winding barrel having a plurality of barrel segments which are arranged in such a manner as to provide a variable circumferential size of said winding barrel, and setting said universal barrel in a predetermined circumferential size;

(b) winding a resilient thin plate around said universal winding barrel and detachable securing said thin plate to said winding barrel;

(c) effecting a parting treatment on the outer surface of said thin plate wound around said universal winding barrel; and

(d) alternately winding said insulator and said conductor in layers on the outer periphery of said thin plate, thereby forming the molded winding.

Compl. Specn. 18 pages.

Drg. 4 sheets.

CLASS : 98-G.

163360

Int. Cl. F 28 f 1/00.

MODULAR TUBULAR HEAT EXCHANGER.

Applicant : THE AIR PREHEATER COMPANY, INC., OF ANDOVER ROAD, WELLSVILLE, NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. GLENN XANIEL MATTISON, 2. MICHAEL ALAN CASE.

Application No. 253/Cal/86 filed March 31, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A heat exchange module suitable for mounting together with a plurality of like heat exchange modules in side-by-side relationship between a gas inlet and a gas outlet to form a box-like array through which a heat exchange fluid passes in heat exchange relationship with the gas, said heat exchange modules comprising :

(a) a rectangular box-like support frame formed of a pair of end frame members spaced apart and interconnected at their respective corners by longitudinally elongated support members, the support members interconnecting the lowermost corners of the end frames providing a track surface;

(b) a tube bundle assembly disposed within said rectangular box-like support frame comprised of a pair of spaced tube sheets with aligned apertures therein and a plurality of longitudinally disposed heat exchange tubes extending between the aligned apertures in the spaced apart tube sheet providing a flow passage through which the heat exchange fluid may be passed in heat exchange relationship with the gas, said tube bundle assembly being translatable into and out of said support frame along the track surface provided by the support members interconnecting the lowermost corners of the end frames of said support frame; and

(c) attachment means for mounting said tube bundle assembly to said support frame, said attachment means including expansion means for accommodating translational movement of at least one tube sheet of said tube bundle assembly within said support frame as the heat exchange tubes of said tube bundle assembly expand or contract longitudinally.

Compl. Specn. 13 pages.

Drg. 3 sheets.

CLASS :

163361

Int. Cl.⁴ : A 63 H 33/08.

A SOCKETED BUILDING BLOCK ASSEMBLY.

Applicant & Inventor : PETER LARWS, A GERMAN CITIZEN, OF SCHLAPPMUHLER P FAD 13, D-6390 USINGEN, FEDERAL REPUBLIC OF GERMANY.

Application No. 880/Mas/84 filed 16 November 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

5 Claims

A socketed building block assembly comprising at least two identical building elements and an axle each element having the approximate shape of an "A" formed by two legs joined to an apex section which includes an opening, each element having dimensions which are based on a basic unit of length "a" and multiples or even-numbered fractions thereof, and wherein the greatest length of each element is "3a", the greatest width is "2a", the width of each leg is "a/2", the depth of each element in the area of each leg is "a", and the depth of each element in the area of the apex is "a/2", and the opening in the apex section has square cross-section of "a" X "a".

Compl. specn. 6 pages.

Drg. 1 sheet

CLASS :

163362

Int. Cl.⁴ : F 16 D 13/68, 13/70.

CAN IMPROVED FRICTION CLUTCH WITH A DRIVE STRAP SYSTEM.

Applicant : DANA CORPORATION, OF 4300 DORR STREET, TOLEDO, OHIO, UNITED STATES OF AMERICA A CORPORATION OF THE STATE OF VIRGINIA UNITED STATES OF AMERICA.

Inventors : MARTIN E. KUMMER, RONALD E. HEYMANN.

Application No. 927/Mas/84 filed 28 November 1984.

Appropriate Office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

4 Claims

An improved friction clutch including a pressure plate and a cover, a drive strap connecting said pressure plate to said cover, said drive strap oriented along a cord at the mean radius of the pressure plate; the improvement comprising said pressure plate having a bore positioned at one end of said cord, said bore extending entirely through said pressure plate from the rear thereof to the disc-engaging surface thereon, said bore disposed for receiving a rivet therethrough for connecting said strap to said pressure plate at said mean radius.

Compl. specn. 9 pages.

Drg. 1 sheet

CLASS :

163363

Int. Cl.⁴ : B 65 H 54/28.

A DEVICE FOR PRODUCING A PACKAGE OF THREAD AND A METHOD OF PRODUCING THE SAME.

Applicant : RIETER MACHINE WORKS LTD OF CH-8406 WINTERTHUR SWITZERLAND A BODY CORPORATION ORGANISED UNDER THE LAWS OF SWITZERLAND.

Inventor : (1) HEINZ MUTTER, (2) HANS-JORG SOMMER, (3) FELIX GRAF, (4) ARMIN WIRZ.

Application No. 937/Mas/84 filed November 30, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims

A device for producing a package of thread with monitoring of the degree of compactness of the thread or package of thread comprising thread package forming means (20) characterised by sensing means responsive to presence of thread at the location of the sensing means and mounting means (30, 32, 34, 36, 42) adapted to maintain said sensing means at a predetermined spacing (d) from the surface (26, 28) of package on said package forming means (20).

Compl. Specn. 28 pages.

Drgs. 3 sheets.

CLASS :

163364

Int. Cl.⁴ : F 16 D 65/02.

AN IMPROVED DRUM BRAKE APPARATUS FOR VEHICLE.

Applicant : NISSAN KOGYO KABUSHIKI KAISHA, A CORPORATION OF JAPAN, OF 840-BANCHI, OOZA KOKUBU, UEDASHI, NAGANO-KEN, JAPAN.

Inventor : ISSEI IWASHITA.

Application No. 1056/Mas/84 filed December 29, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims

A drum brake apparatus for a Vehicle of the type having a brake shoe with a web, a shoe hold pin which resiliently retains said brake shoe on a back plate through a shoe hold spring, a parking brake lever, and an automatic braking gap adjuster,

Wherein a stopper member is provided for limiting the extent of the backward movement of said parking brake lever, said stopper member comprising a tubular portion and an abutment portion, said tubular portion extending through said back plate and having a hollow interior through which said shoe hold pin penetrates said abutment portion abutting against a portion of said back plate on the side thereof which is closer to the vehicle body, and the stopper member being resiliently retained on said back plate by a head portion of said shoe hold pin and said shoe hold spring so as to allow a swinging movement of said shoe hold pin.

Compl. specn. 11 pages.

Drgs. 2 sheets

CLASS :

163365

Int. Cl.⁴ : E 03 D 5/09.

AN IMPROVED FUSHING CISTERN.

Applicant : ARUN SINHA, NARENDRA GHORPADE, VANKIPURAM RAMAMURTHY RAMARATHNAM, VENPAKKAM COMANDUR SUNDARA DESIKAN, VIJAY GHORPADE, KOTA VENKATACHALAPATHY RAMANATH AND RANGANATHAN SRINIVASAN, ALL OF 30 M. K. N. ROAD, GUINDY INDUSTRIAL ESTATE P. O., MADRAS-600 032, TAMIL NADU, INDIA, INDIAN NATIONALS.

Inventor : ARUN SINHA.

Application No. 321/Mas/85 filed 29 April 1985.

Appropriate Office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

3 Claims

An improved flushing cistern comprising a first chamber containing waater and incorporating a water regulating valve; a second chamber enclosed by the first chamber, the water within the first chamber having access to the second chamber through apertures at the base of the second chamber; a flushing pipe the first end of which communicates with the base of the second chamber at the level of the said apertures and is normally closed by a disc attached to a rod passing through the second chamber, the second end of the pipe being disposed outside the cistern, such that as the disc is raised above the first end of the flushing pipe by manually lifting the rod, water enters the flushing pipe through its first end and is drained therethrough, the force of entry of such water keeping the disc raised above the first end of the flushing pipe until such time as the water in the chambers flushing pipe until such time as the water in the chambers is drained away or until such time as the disc is lowered on to the first end of the pipe by manually pressing the rod downwardly.

Compl. specn. 7 pages.

Drg. 1 sheet

CLASS : 163366

Int. Cl.⁴ : E 21 B 17/07.

- SHOCK ABSORBER FOR A DRILL STRING.

Applicant : DAILEY PETROLEUM SERVICES CORP., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELWARE, HAVING A PRINCIPAL PLACE OF BUSINESS AT 2507 NORTH FRAZIER STREET, CONROE, TEXAS 77305, UNITED STATES OF AMERICA.

Inventor : CHUAN CHIN TENG.

Application No. 124/Mas/85 filed February 13, 1985.

Appropriate Office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

13 Claims

A shock absorber for a drill string comprising : an elongated body having threaded connections at its ends for assembly into a string of well pipe carrying a drill bit, said body having an axial flow passageway; said body formed of a tubular mandrel slideably mounted within a tubular barrel with an annulus exposed to well fluid between said mandrel and said barrel; fluid seals positioned in the annulus between said mandrel and said barrel forming an annular region isolated from well fluid; said mandrel and said barrel having shoulders at the ends of recessed opposite facing sidewalls defining a cylindrical chamber in the fluid isolated annular region; bearing means for providing telescoping movements of said mandrel in said barrel; a plurality of grooves extending longitudinally on said mandrel; rollers carried by said barrel and driveably engaged within said grooves whereby said mandrel telescopes with respect to said barrel; annular resilient shock absorbing members contained as a stock in said cylindrical chamber; and said mandrel having at least two sections threadedly connected at a joint located between said rollers and said shock absorbing members.

Compl. specn. 20 pages.

Drgs. 2 sheets

CLASS :

163367

Int. Cl.⁴ : D 01 H 13/30.

A YARN WETTING DEVICE.

Applicant : PALITEX PROCECT—COMPANY GmbH OF WEESERWEG 60, 4150 KREFELD 1 FEDERAL REPUBLIC OF GERMANY.

Inventor : DR. RAINER LORENZ.

Application No. 132/Mas/ 85 filed 15 February 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

21 Claims

A yarn-wetting device having a reservoir, a porous body which has a capillary action and over which the yarn is drawn for the purpose of removing wetting agent which is fed from the reservoir to the porous body by suction, and a line system which leads into the resevoir and has an opening which opens into the atmosphere above the reservoir and an opening located above the bottom of the reservoir, the resevoir being sealed relative to the atmospheric pressure when the level of the wetting agent is above the bottom opening of the line system.

Compl. specn. 20 pages.

Drgs. 7 sheets

CLASS :

163368

Int. Cl.⁴ : G 09 C5/00, G.11 B-5/80.

AN INDUCTIVE CARD READER.

Applicant : KERALA STATE ELECTRONICS DEVELOPMENT CORPORATION LIMITED (ELECTRONICS RESEARCH AND DEVELOPMENT CENTRE) OF KELTRON HOUSE, VELLAYAMBALAM TRIVANDRUM-695003, KERALA, INDIA, A GOVERNMENT OF KERALA UNDERTAKING.

Inventors : GEORGE M. T., -V. JOHN PHILIPOSE.

Application No. 156/Mas/85, filed February 23, 1985.

Appropriate Office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

7 Claims

An inductive card reader for sensing a card which is embedded with a plurality of electrically conductive discs to form a code, the reader comprising a chute provided with an array of coils placed in a line on either side of the chute such that they constitute magnetically linked pairs of primaries and secondaries and such that each of the code dies would sever one of these magnetic couplings momentarily as they pass through the chute giving rise to a sequence of current pulses in the secondary coils having a direct relationship with the code in the card, and a pulse processing unit connected to the output of the secondary coils for shaping the pulse and bringing it to a predetermined amplitude.

Compl. specn. 11 pages.

Drgs. 2 sheets

CLASS :

163369

Int. Cl.⁴ : C 08 G 83/00.**PROCESS FOR PREPARING A POLYMER COMPOUND OF TWO OR MORE POLYMERS BY REACTION INJECTION MOLDING.**

Applicant : STAMICARBON B. V. (LICENSING SUBSIDIARY OF DSM), OF MIJNWEG 1, 6167 AC GELEEN, THE NETHERLANDS, A DUTCH COMPANY.

Inventors : JOZEF LAMBERTUS MARIA VANDER LOOS, ALBERT ARNOLD VAN GEENEN, KURT CHARLES FRISCH, KANEYOSHI ASHIDA.

Application No. 214/Mas/85 filed 21 March 1985.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

13 Claims

Process for preparing a polymer compound of two or more polymers by reaction injection molding, comprising :

introducing a mixture of substantially stable reactant streams into a mold, said mixture containing

- (a) 5 to 95 weight % of a known polymer forming compounds forming at least one polymer of the group consisting of polyurethane polymer, polyurea polymer and polyisocyanurate polymer, wherein the polyurethane forming compounds comprise polyol, polyisocyanate and an urethane polymerization catalyst the polyurea forming compounds comprise polymine or hydrazine and polyisocyanate, and the polyisocyanurate forming compounds comprise polyisocyanate, polyol and a trimerization catalyst;
- (b) 95 to 5 weight % of a known polyamide polymer forming compounds, wherein the polyamide polymer forming compounds comprise lactam, an anionic polymerization catalyst and a polymerization activator; said polyurethane polymer forming compounds, said polyisocyanurate polymer forming compounds, said polyurea polymer forming compounds and said polyamide polymer forming compounds

reacting to form polyurethane, polyurea, polyisocyanurate and polyamide polymers respectively in said mold at a temperature from 120°C to 170°C thereby yielding a polymer compound of two or more polymers, and recovering said polymer compound from said mold after a residence time between 10 seconds and 60 minutes.

Compl. specn. 52 pages.

Drg. Nil

According to this invention, polymers having wide range of properties such as reinforced rubber to high impact plastics can be prepared.

CLASS :

163370

Int. Cl.⁴ : F 28 C 3/04, 13/06.**A DEVICE TO GUIDE AND/OR CHANNELISE HOT WATER ON THE SURFACE OF WATER RESERVOIR IN A PREDETERMINED ROUTE (S)/LENGTH(S) FOR COOLING THE SAME.**

Applicant & Inventor : MANJARABAD VENKATARAMANASWAMY NAIK SREENIVASA RAJU, AN INDIAN CITIZEN, OF 648-D (NEAR KALPATHARU BAZAR), INDIRANAGAR FIRST STAGE, BANGALORE-560 038, KARNATAKA, INDIA.

Application No. 224/Mas/85 filed March 23, 1985.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims

A device to guide and/or channelise hot water on the surface of a water reservoir in a predetermined route(s)/length(s) for cooling the same which comprises one or more floating bodies linked to each other to form a train defining a wall, the bottom portion of each said floating body is provided with at least two pulleys and strings passing therethrough, one end of each said string is anchored to the reservoir bed or attached to a dead weight and the other end thereof is attached to an adjustable counterweight for stabilising the said floating body at a fully submerged or semi-submerged state in a desired orientation.

Compl. specn. 10 pages.

Drgs. 4 sheets

163332

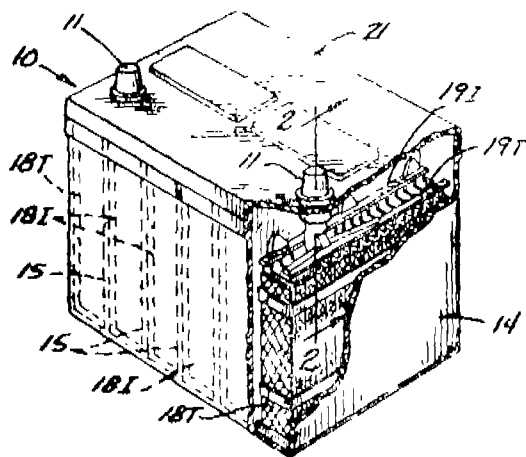


Fig. 1.

Fig. 1

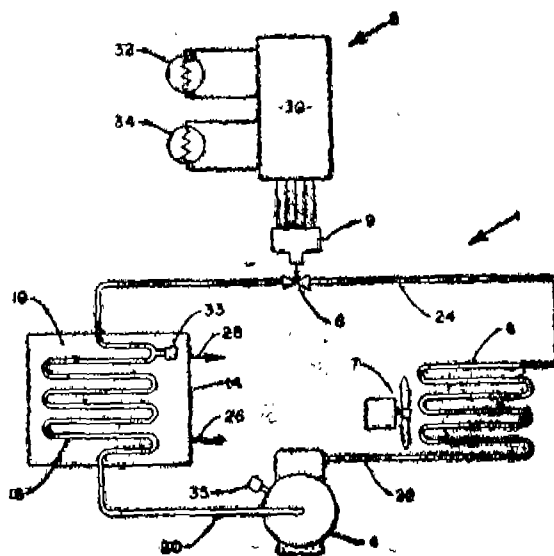


FIG. 1

163326

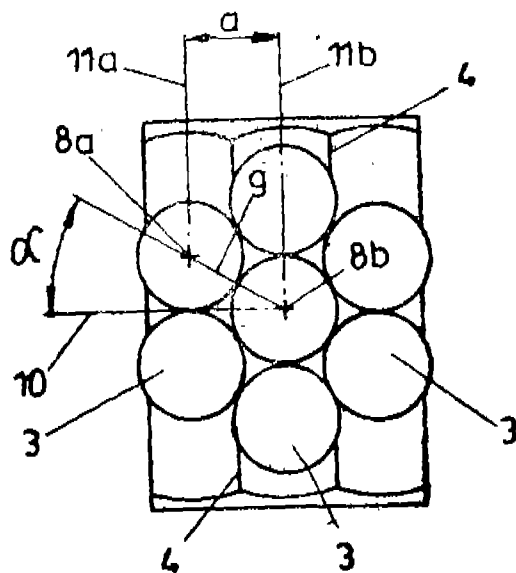


Fig. 2

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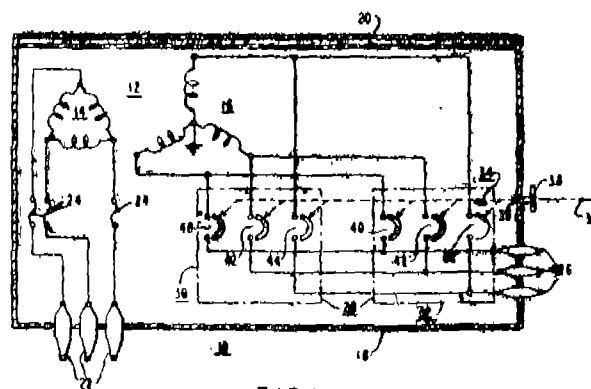


FIG. 1

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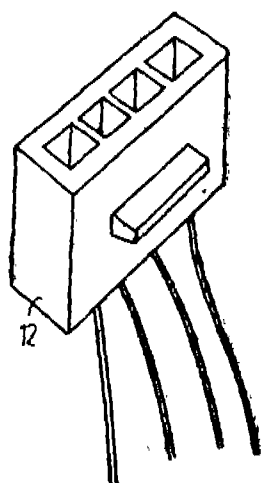
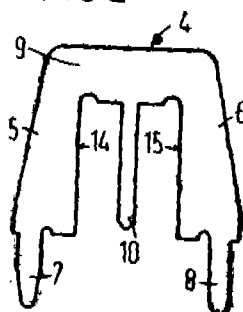


FIG. 2



163335

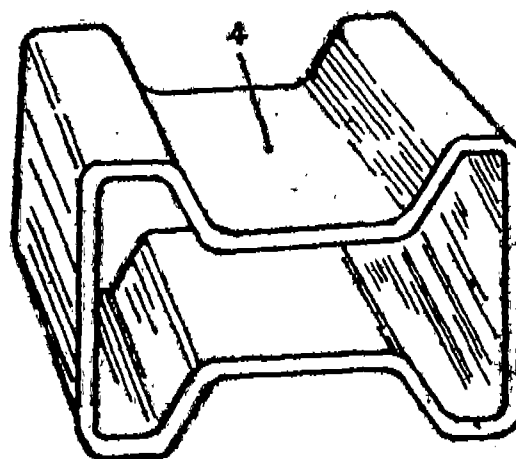
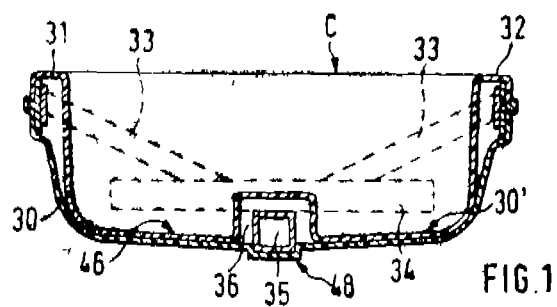
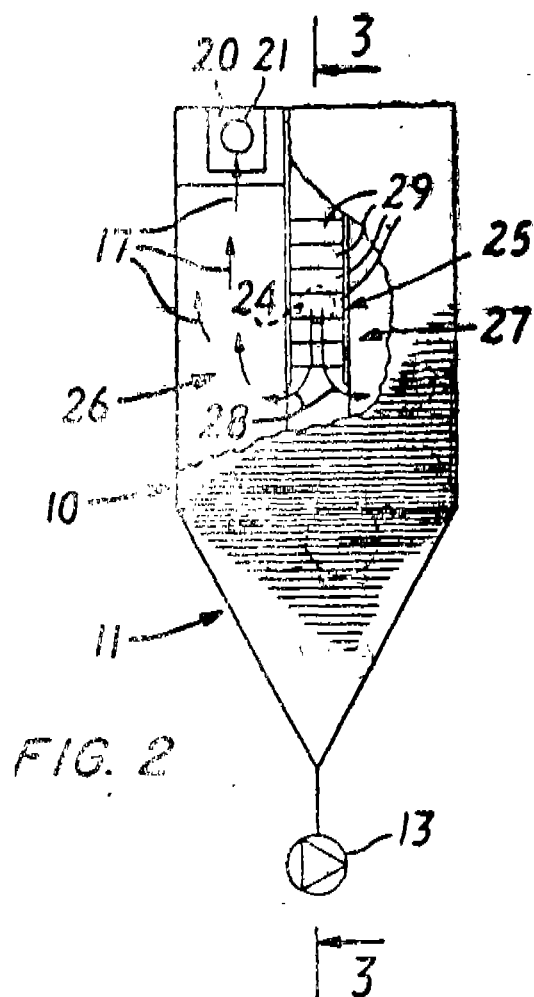


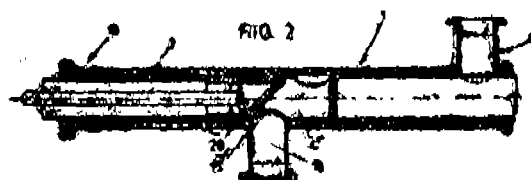
FIG. 5

163337

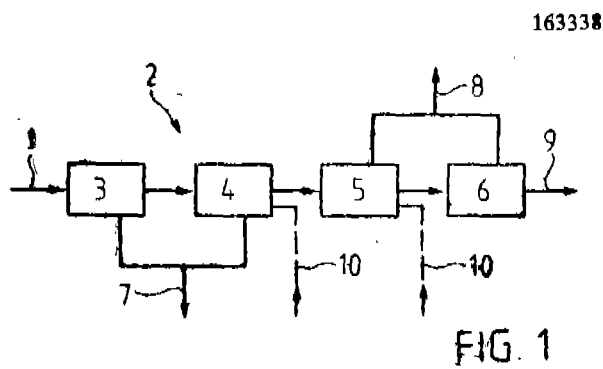
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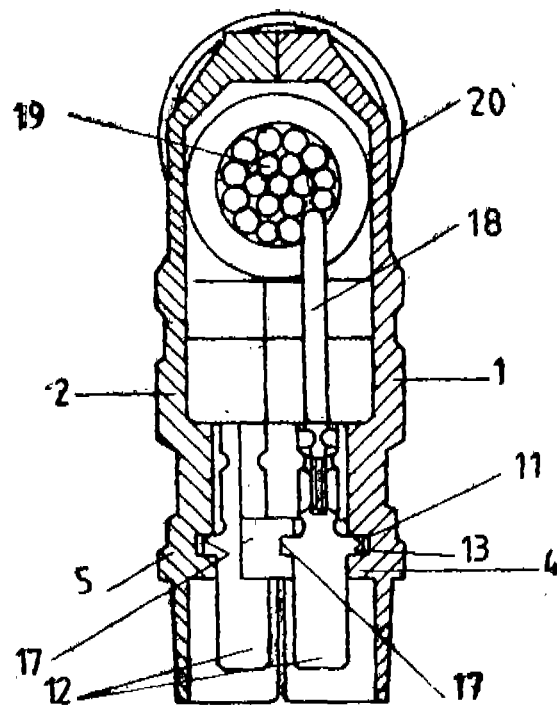
163340



163357



163338



163358

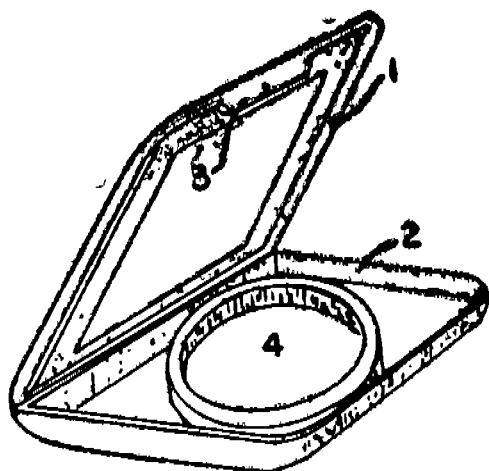


FIG. 1

163359

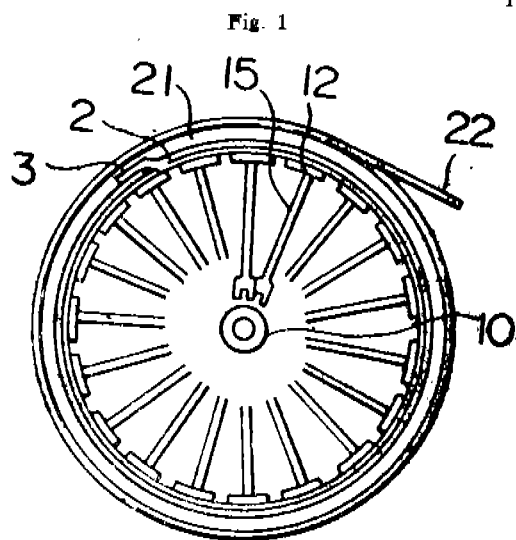


Fig. 1

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